













ANNUAL REGISTER

OF THE

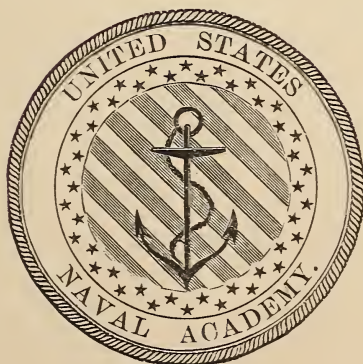
UNITED STATES NAVAL ACADEMY,

ANNAPOLIS, MD.

---

FIFTY-FIRST ACADEMIC YEAR.

1895-'96.



WASHINGTON:  
GOVERNMENT PRINTING OFFICE.

1896.





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# THE UNITED STATES NAVAL ACADEMY.

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The United States Naval Academy was founded in 1845 by the Hon. George Bancroft, Secretary of the Navy, in the Administration of President James K. Polk. It was formally opened October 10 of that year under the name of the Naval School, with Commander Franklin Buchanan as superintendent. It was placed at Annapolis, Md., on the land occupied by Fort Severn, which was given up by the War Department for the purpose. The course was fixed at five years, of which only the first year and the last were spent at the school, the intervening three years being passed at sea. This arrangement was not strictly adhered to, the exigencies of the service making it necessary, in many cases, to shorten the period of study. In January, 1846, four months after the opening of the school, the students consisted of 36 midshipmen of the date of 1840, who were preparing for the examination for promotion; 13 of the date of 1841, who were to remain until drafted for service at sea; and 7 acting midshipmen, appointed after September of the previous year. The midshipmen of the date of 1840 were the first to be graduated, finishing their limited course in July, 1846, and they were followed in order by the subsequent dates until the reorganization of the school in 1850.

In September, 1849, the following board was appointed to revise the plan and the regulations of the Naval School:

Commander William B. Shubrick,  
Commander Franklin Buchanan,  
Commander Samuel F. Du Pont,  
Commander George P. Upshur,  
Surgeon W. S. W. Ruschenberger,  
Professor William Chauvenet,  
Captain Henry Brewerton, United States Army.

The plan reported by the board was approved, and went into operation July 1, 1850. The new organization provided for a course of seven years, the first two and the last two at the school, and the three intermediate years at sea. The school was placed under the supervision of the Bureau of Ordnance and Hydrography, and its name was changed to the United States Naval Academy. The corps of professors was enlarged, the course was extended, and the system of separate departments with executive heads was fully adopted. It was provided that a board of visitors should make an annual inspection of the Academy and report upon its condition to the Secretary of the Navy. A suitable vessel was attached to the Academy as a practice ship, and the annual practice cruises were begun.

After the system had been in operation a year new changes were proposed, and the recommendations of the academic board on the subject were referred to the board of examiners for the year 1851, composed of the following named officers:

Commodore David Conner,  
Captain Samuel L. Breese,  
Commander C. K. Stribling,  
Commander A. Bigelow,  
Commander Franklin Buchanan,  
Lieutenant Thomas T. Craven.

The change recommended by the board of examiners, and adopted by the Department, consisted mainly in leaving out the requirement of three years of sea service in the middle of the course, thus making the four years of study consecutive. The practice cruise supplied the place of the omitted sea service, and gave better opportunities for training. The change went into operation in November, 1851, together with other improvements recommended by the board. This system has been continued, with some slight modifications, to the present time. The first class to receive the benefit of it was that which entered in 1851. Six members of this class completed the course in three years, and were graduated in June, 1854; the rest of the class followed in 1855.

In May, 1861, on the outbreak of the war, the Academy was removed to Newport, R. I. The three upper classes were detached and ordered to sea, and the remaining acting midshipmen were quartered in the Atlantic House and on board the frigates *Constitution* and *Santee*. In the summer of 1865 the Academy was removed back to Annapolis, where it has since remained.

When the Bureau of Navigation was established, July 5, 1862, the Academy was placed under its supervision; March 1, 1867, it was placed under the direct care and supervision of the Navy Department, the administrative routine and financial management being still conducted through the Bureau. On the 11th of March, 1869, this official connection with the Bureau ceased, but was renewed by the general order of the Navy Department issued June 25, 1889.

The term of the academic course was changed by law, March 3, 1873, from four to six years. The change took effect with the class that entered in the following summer.

In 1866 a class of acting third assistant engineers was ordered to the Academy for instruction. The course embraced the subjects of steam engineering, mechanism, chemistry, mechanics, and practical exercises with the steam engine and in the machine shop. This class was graduated in June, 1868, together with two cadet engineers who had entered the Academy in 1867. After an interval of four years, in October, 1871, a new class of cadet engineers was admitted. This class followed a two years' course, somewhat more extended than that of the class of 1868, and was graduated in 1873. In 1872 and 1873 new classes were admitted, the first of which left the Academy in 1874 and the second in 1875. By an act of Congress approved February 24, 1874, the course of instruction for cadet engineers was made four years instead of two; the new provision was first applied to the class entering the Academy in the year 1874. This class was graduated in June, 1878.

By an act of Congress approved August 5, 1882, it was provided that from that date "there shall be no appointments of cadet-midshipmen or cadet-engineers at the Naval Academy, but in lieu thereof naval cadets shall be appointed from each Congressional district and at large, as now provided by law for cadet-midshipmen, and all the undergraduates at the Naval Academy shall hereafter be designated and called 'naval cadets;' and from those who successfully complete the six years' course, appointments shall hereafter be made as it is necessary to fill vacancies in the lower grades of the line and engineer corps of the navy and of the marine corps: *And provided further,* That no greater number of appointments into these grades shall be made each year than shall equal the number of vacancies which has occurred in the same grades during the preceding year; such appointments to be made from the graduates of the year, at the conclusion of their six years' course, in the order of merit, as determined by the academic board of the Naval Academy; the assignment to the various corps to be made by the Secretary of the Navy upon the recommendation of the academic board. But nothing herein contained shall reduce the number of appointments from such graduates below ten in each year, nor deprive of such appointment any graduate who may complete the six years' course during the year eighteen hundred and eighty-two. And if there be a surplus of graduates, those who do not receive such appointment shall be given a certificate of



graduation, an honorable discharge, and one year's sea pay, as now provided by law for cadet-midshipmen; and so much of section fifteen hundred and twenty-one of the Revised Statutes as is inconsistent herewith is hereby repealed.

"That any cadet whose position in his class entitles him to be retained in the service may, upon his own application, be honorably discharged at the end of the four years' course at the Naval Academy, with a proper certificate of graduation."

The act of Congress approved March 2, 1889, provides that "the academic board of the Naval Academy shall on or before the thirtieth day of September in each year separate the first class of naval cadets then commencing their fourth year into two divisions, as they may have shown special aptitude for the duties of the respective corps, in the proportion which the aggregate number of vacancies occurring in the preceding fiscal year ending on the thirtieth day of June in the lowest grades of commissioned officers of the line of the navy and marine corps of the navy shall bear to the number of vacancies to be supplied from the academy occurring during the same period in the lowest grade of commissioned officers of the engineer corps of the navy; and the cadets so assigned to the line and marine corps division of the first class shall thereafter pursue a course of study arranged to fit them for service in the line of the navy, and the cadets so assigned to the engineer corps division of the first class shall thereafter pursue a separate course of study arranged to fit them for service in the engineer corps of the navy, and the cadets shall thereafter, and until final graduation at the end of their six years' course, take rank by merit with those in the same division, according to the merit marks; and from the final graduates of the line and marine corps division, at the end of their six years' course, appointments shall be made hereafter as it shall be necessary to fill vacancies in the lowest grades of commissioned officers of the line of the navy and marine corps; and the vacancies in the lowest grades of the commissioned officers of the engineer corps of the navy shall be filled in like manner by appointments from the final graduates of the engineer division at the end of their six years' course: *Provided*, That no greater number of appointments into the said lowest grades of commissioned officers shall be made each year than shall equal the number of vacancies which shall have occurred in the same grades during the fiscal year then current; such appointments to be made from the final graduates of the year, in the order of merit as determined by the academic board of the Naval Academy, the assignment to be made by the Secretary of the Navy upon the recommendation of the academic board at the conclusion of the fiscal year then current; but nothing contained herein or in the naval appropriation act of August fifth, eighteen hundred and eighty-two, shall reduce the number of appointments of final graduates at the end of their six years' course below twelve in each year to the line of the navy, and not less than two shall be appointed annually to the engineer corps of the navy, nor less than one annually to the marine corps; and if the number of vacancies in the lowest grades aforesaid, occurring in any year shall be greater than the number of final graduates of that year, the surplus vacancies shall be filled from the final graduates of following years, as they shall become available."

"That after the fourth day of March, eighteen hundred and eighty-nine, the minimum age of admission of cadets to the academy shall be fifteen years and the maximum age twenty years."





# SUPERINTENDENTS

## OF THE

### UNITED STATES NAVAL ACADEMY.

---

	Assumed command.
Commander Franklin Buchanan .....	Sept. 3, 1845
Commander George P. Upshur .....	Mar. 15, 1847
Commander Cornelius K. Stribling .....	July 1, 1850
Commander Louis M. Goldsborough .....	Nov. 1, 1853
Captain George S. Blake .....	Sept. 15, 1857
Rear-Admiral David D. Porter .....	Sept. 9, 1865
Commodore John L. Worden .....	Dec. 1, 1869
Rear-Admiral C. R. P. Rodgers .....	Sept. 22, 1874
Commodore Foxhall A. Parker .....	July 1, 1878
Rear-Admiral George B. Balch .....	Aug. 2, 1879
Rear-Admiral C. R. P. Rodgers .....	June 13, 1881
Captain F. M. Ramsay .....	Nov. 14, 1881
Commander W. T. Sampson .....	Sept. 9, 1886
Captain R. L. Phythian .....	June 30, 1890
Captain P. H. Cooper .....	Nov. 15, 1894



## BOARD OF VISITORS, JUNE, 1895.

---

Honorable CHARLES J. FAULKNER, U. S. Senate, W. Va., *President*.  
Honorable J. A. T. HULL, House of Representatives, Iowa, *Vice-President*.  
Honorable F. T. DUBOIS, U. S. Senate, Idaho.  
Honorable J. D. SAYERS, House of Representatives, Texas.  
Honorable F. C. TATE, House of Representatives, Georgia.  
Honorable J. B. HENDERSON, St. Louis, Missouri.  
Reverend M. M. BENTON, Louisville, Kentucky.  
Mr. ROBERT M. THOMPSON, New York City, N. Y.  
Colonel A. F. FLEET, Mexico, Missouri.  
Mr. E. P. MORRISSETT, Montgomery, Alabama.  
Professor THOMAS R. LOUNSBURY, New Haven, Connecticut.  
Professor W. M. THORNTON, Charlottesville, Virginia.

# ACADEMIC CALENDAR.

1895-1896.

1895.

October 1.—Beginning of first term . . . . . Tuesday.

1896.

January 27-February 1.—Semi-annual examination . . . Monday-Saturday.

February 1.—End of first term . . . . . Saturday.

May 15.—Examination of candidates for admission as naval cadets . . . . . Friday.

May 30.—End of academic year, 1895-'96 . . . . . Saturday.

June 1-6.—Annual examination . . . . . Monday-Saturday.

September 1.—Examination of candidates for admission as naval cadets . . . . . Tuesday.

October 1.—Beginning of first term, 1896-'97 . . . . . Thursday.

The academic months end on the following days:

1895-1896.

October . . .	November 2	February . . .	February 29
November . . .	November 30	March . . .	March 28
December . . .	December 28	April . . .	April 25
January . . .	January 25	May . . .	May 23

1896-1897.

October . . .	October 31	December . . .	December 26
November . . .	November 28	January . . .	January 23

# CALENDAR FOR 1895-96.

SEPTEMBER.							APRIL.						
Sun.	M.	T.	W.	T.	F.	Sat.	Sun.	M.	T.	W.	T.	F.	Sat.
1	2	3	4	5	6	7	-----	-----	-----	1	2	3	4
8	9	10	11	12	13	14	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25
29	30	-----	-----	-----	-----	-----	26	27	28	29	30	-----	-----
OCTOBER.							MAY.						
-----	-----	1	2	3	4	5	-----	-----	-----	-----	1	2	-----
6	7	8	9	10	11	12	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23
27	28	29	30	31	-----	-----	24	25	26	27	28	29	30
-----	-----	-----	-----	-----	-----	-----	31	-----	-----	-----	-----	-----	-----
NOVEMBER.							JUNE.						
-----	-----	-----	-----	-----	1	2	-----	1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28	29	30	-----	-----	-----	-----
DECEMBER.							JULY.						
1	2	3	4	5	6	7	-----	-----	1	2	3	4	-----
8	9	10	11	12	13	14	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25
29	30	31	-----	-----	-----	-----	26	27	28	29	30	31	-----
JANUARY.							AUGUST.						
-----	-----	-----	1	2	3	4	-----	-----	-----	-----	-----	1	-----
5	6	7	8	9	10	11	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22
26	27	28	29	30	31	-----	23	24	25	26	27	28	29
-----	-----	-----	-----	-----	-----	-----	30	31	-----	-----	-----	-----	-----
FEBRUARY.							SEPTEMBER.						
-----	-----	-----	-----	-----	-----	1	-----	-----	1	2	3	4	5
2	3	4	5	6	7	8	6	7	8	9	10	11	12
9	10	11	12	13	14	15	13	14	15	16	17	18	19
16	17	18	19	20	21	22	20	21	22	23	24	25	26
23	24	25	26	27	28	29	27	28	29	30	-----	-----	-----
MARCH.							OCTOBER.						
1	2	3	4	5	6	7	-----	-----	-----	-----	1	2	3
8	9	10	11	12	13	14	4	5	6	7	8	9	10
15	16	17	18	19	20	21	11	12	13	14	15	16	17
22	23	24	25	26	27	28	18	19	20	21	22	23	24
29	30	31	-----	-----	-----	-----	25	26	27	28	29	30	31



## OFFICERS

ATTACHED TO THE

# UNITED STATES NAVAL ACADEMY.

---

SUPERINTENDENT,

CAPTAIN P. H. COOPER.

*Assistant to the Superintendent in charge of Buildings and Grounds,*

LIEUTENANT-COMMANDER A. ROSS.

*Assistant to the Superintendent and Secretary of the Academic Board,*

LIEUTENANT W. P. POTTER.

---

*Commandant of Cadets and Head of Department of Discipline,*

COMMANDER W. H. BROWNSON.

LIEUTENANT C. E. COLAHAN, *Assistant.*

LIEUTENANT T. PORTER, *Assistant and Drill Officer.*

LIEUTENANT D. DANIELS, *Assistant and Drill Officer.*

LIEUTENANT P. W. HOURIGAN, *Assistant and Drill Officer.*

---

SEAMANSHIP.

*Head of Department,*

LIEUTENANT-COMMANDER W. T. SWINBURNE.

*Assistants,*

LIEUTENANT F. E. BEATTY,

LIEUTENANT R. M. DOYLE,

LIEUTENANT DEWITT COFFMAN.

ORDNANCE.

*Head of Department,*

LIEUTENANT ALEXANDER MCCRACKIN.

*Assistants,*

LIEUTENANT J. H. GLENNON,

LIEUTENANT J. M. ELLICOTT,

ENSIGN E. MOALE, JR.

*Sword Master,*

A. J. CORBESIER.

*Assistant Sword Masters,*

J. B. RETZ,  
G. HEINTZ.

---

NAVIGATION.

*Head of Department,*

LIEUTENANT-COMMANDER B. F. TILLEY.

*Assistants,*

LIEUTENANT J. A. NORRIS,  
LIEUTENANT C. J. BOUSH,  
LIEUTENANT JOHN GIBSON.

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*Assistants,*

PASSED ASSISTANT ENGINEER F. H. ELDRIDGE,  
PASSED ASSISTANT ENGINEER F. W. BARTLETT,  
PASSED ASSISTANT ENGINEER L. D. MINER,  
ASSISTANT ENGINEER H. W. JONES,  
ASSISTANT ENGINEER H. O. STICKNEY.

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*Assistants,*

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LIEUTENANT W. H. ALLEN,  
LIEUTENANT J. M. ORCHARD,  
LIEUTENANT HARRY PHELPS,  
PROFESSOR W. W. JOHNSON, A. M.

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PROFESSOR N. M. TERRY, A. M., PH. D.

*Assistants,*

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LIEUTENANT J. E. CRAVEN,  
LIEUTENANT J. A. HOOGEWERFF,  
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PROFESSOR PAUL J. DASHIELL, PH. D.



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*Head of Department,*

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*Assistants,*

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LIEUTENANT H. G. DRESEL,  
ENSIGN A. H. ROBERTSON,  
ENSIGN L. H. CHANDLER,  
ENSIGN W. V. PRATT,  
ENSIGN G. R. MARVELL.

---

ENGLISH.

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*Assistants,*

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LIEUTENANT J. P. PARKER,  
LIEUTENANT G. R. CLARK,  
ENSIGN E. W. EBERLE,  
ENSIGN E. H. DURELL,  
ENSIGN F. B. BASSETT,  
PROFESSOR W. W. FAY, A. M.,  
PROFESSOR A. N. BROWN.

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LANGUAGES.

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*Assistants,*

LIEUTENANT T. SNOWDEN,  
ENSIGN B. F. HUTCHISON,  
PROFESSOR JULES LEROUX,  
PROFESSOR HENRI MARION,  
PROFESSOR SAMUEL GARNER, PH. D.,  
ASSISTANT PROFESSOR P. J. DES GARENNES, A. M.

---

DRAWING.

*Head of Department,*

LIEUTENANT G. P. COLVOCORESSES.

*Assistants,*

ENSIGN A. B. HOFF,  
PROFESSOR C. F. BLAUVELT.

---

BRANCH OF PHYSICAL TRAINING.

*In Charge,*

SURGEON HENRY G. BEYER, M. D., PH. D.

*Instructor,*

MATTHEW STROHM.

## OFFICERS NOT ATTACHED TO ACADEMIC STAFF.

LIEUTENANT-COMMANDER U. SEBREE, *in Charge of Ships*.  
 MEDICAL DIRECTOR T. C. WALTON, M. D.  
 SURGEON W. R. DU BOSE, M. D.  
 PASSED ASSISTANT SURGEON S. S. WHITE, M. D.  
 PASSED ASSISTANT SURGEON A. M. D. McCORMICK, M. D.  
 PAY DIRECTOR T. T. CASWELL, *Pay Officer*.  
 PAY INSPECTOR W. GOLDSBOROUGH, *Commissary and General Storekeeper*.  
 CHAPLAIN A. L. ROYCE.  
 PROFESSOR M. OLIVER, U. S. N., *Librarian*.  
 J. M. SPENCER, *Assistant Librarian*.  
 R. M. CHASE, *Secretary*.  
 GUNNER A. A. PHELPS.

---

*Santee and Ships.*

BOATSWAIN J. S. SINCLAIR,

*Mates,*

C. J. MURPHY,  
 W. G. SMITH.

---

MARINE OFFICERS.

LIEUTENANT-COLONEL McLANE TILTON, *Commanding Marines*,  
 CAPTAIN J. M. T. YOUNG.  
 FIRST LIEUTENANT C. A. DOYEN,  
 SECOND LIEUTENANT C. F. MACKLIN.

## ACADEMIC BOARD.

THE SUPERINTENDENT.  
 THE COMMANDANT OF CADETS.  
 THE HEAD OF THE DEPARTMENT OF SEAMANSHIP.  
 THE HEAD OF THE DEPARTMENT OF ORDNANCE.  
 THE HEAD OF THE DEPARTMENT OF NAVIGATION.  
 THE HEAD OF THE DEPARTMENT OF STEAM ENGINEERING.  
 THE HEAD OF THE DEPARTMENT OF MECHANICS.  
 THE HEAD OF THE DEPARTMENT OF PHYSICS.  
 THE HEAD OF THE DEPARTMENT OF MATHEMATICS.  
 THE HEAD OF THE DEPARTMENT OF ENGLISH.  
 THE HEAD OF THE DEPARTMENT OF LANGUAGES.  
 THE HEAD OF THE DEPARTMENT OF DRAWING.

## CADET OFFICERS OF THE UNITED STATES NAVAL ACADEMY.

CADET LIEUTENANT-COMMANDER,

R. H. ROBINSON.

CADET LIEUTENANTS,

T. T. CRAVEN,

C. L. POOR,

J. H. HOLDEN,

E. McCAULEY, JR.

CADET LIEUTENANT AND ADJUTANT,

L. C. PALMER.

CADET PASSED ASSISTANT ENGINEER,

C. L. LEIPER.

CADET ASSISTANT ENGINEER,

E. T. FITZGERALD.

CADET JUNIOR LIEUTENANTS,

H. S. KIMBALL,

T. A. KEARNEY,

F. E. RIDGELEY,

D. W. WURTSBAUGH.

CADET ENSIGNS,

A. E. KALBACH,

H. C. MUSTIN,

R. EARLE,

C. E. GILPIN.

CADET CHIEF PETTY OFFICER,

D. W. KNOX.

CADET PETTY OFFICERS OF THE FIRST CLASS.

*First Division.**Second Division.**Third Division.**Fourth Division.*

M. ST. C. ELLIS,

J. H. ROYS,

E. P. JESSOP,

W. T. CLUVERIUS, JR.,

A. MACARTHUR, JR. JR.,

R. I. CURTIN,

D. M. WOOD,

R. E. WALKER,

A. BRONSON, JR.,

C. M. TOZER,

I. C. WETTENGEL,

W. G. DuBOSE,

F. L. SHEFFIELD.

E. F. EGGERT.

J. W. POWELL.

H. E. YARNELL.

CADET PETTY OFFICERS OF THE SECOND CLASS.

*First Division.**Second Division.**Third Division.**Fourth Division.*

A. H. MCCARTHY,

W. H. RÉYNOLDS,

G. CHASE,

A. J. HEPBURN,

N. L. JONES,

H. P. PERRILL,

D. E. THELEEN,

W. P. GILES,

A. KAUTZ,

F. R. HOLMAN,

J. W. MORSE,

H. N. JENSEN,

O. G. MURFIN.

A. T. GRAHAM.

H. WILLIAMS.

L. M. OVERSTREET.

## SUMMER CRUISE, 1895.

OFFICERS AND NAVAL CADETS.

UNITED STATES PRACTICE SHIP MONONGAHELA.

*June 9 to August 30.*COMMANDER W. H. BROWSON, *Commanding.*ENSIGN L. H. CHANDLER, *Watch Officer.*LIEUTENANT C. E. COLAHAN, *Executive Officer.*ENSIGN A. B. HOFF, *Watch Officer.*LIEUTENANT T. B. HOWARD, *Navigator.*

SURGEON H. G. BEYER.

LIEUTENANT W. H. ALLEN, *Watch Officer.*

ASSISTANT SURGEON H. D. WILSON.

LIEUTENANT J. P. PARKER, *Watch Officer.*

PAYMASTER M. C. McDONALD.

LIEUTENANT J. GIBSON, *Watch Officer.*

CHAPLAIN A. L. ROYCE,

ENSIGN J. W. OMAN, *Instructor in Navigation.*

*First Class—Line Division.*

Bisset, H. O.,	Holden, J. H.,	McCauley, E., jr.,	Tozer, C. M.,
Cluverius, W. T., jr.,	Jessop, E. P.,	Mustin, H. C.,	Walker, R. E.,
Craven, T. T.,	Kalbach, A. E.,	Palmer, L. C.,	Wettengel, I. C.,
Curtin, R. I.,	Kearney, T. A.,	Poor, C. L.,	Wood, D. M.,
Earle, R.,	Kimball, H. S.,	Ridgely, F. E.,	Wurtsbaugh, D. W.
Ellis, M. St. C.,	Knox, D. W.,	Robinson, R. H.,	
Gilpin, C. E.,	MacArthur, A., jr., jr.,	Roy, J. H.,	

*Third Class.*

Abele, C. A.,	Elson, H. J.,	Lehfeldt, H. A.,	Schofield, J. A.,
Applewhite, S. C.,	England, W. H.,	Love, J. M., jr.,	Shane, L.,
Arnold, W. W.,	Evans, F. T.,	McIntyre, E. W.,	Smith, G. L.,
Babcock, J. F.,	Faller, G. W.,	Macy, U. S.,	Sweet, G. C.,
Boone, C.,	Farrin, T. B.,	Madison, Z. H., jr.,	Tardy, W. B.,
Briggs, W. G.,	Gilmer, J. B.,	Mannix, D. P.,	Tarrant, W. T.,
Briggs, Z. E.,	Graham, J. S.,	Marble, R. N., jr.,	Taylor, H. K.,
Brockway, B. L.,	Halligan, J., jr.,	Mitchell, A. N.,	Thorpe, G. C.,
Brown, G., jr.,	Hand, J. A., jr.,	Nelson, C. P.,	Watts, W. C.,
Brown, J. J.,	Hanrahan, D. C.,	Peterson, R. L.,	Wells, W. B.,
Brown, M. H.,	Hord, O. S.,	Pettingill, G. T.,	Williams, Henry,
Constien, E. T.,	Hunter, C. M.,	Pinney, F. L.,	Williams, Y. S.,
Cotten, L. A.,	Huntington, A. F.,	Purse, H. A.,	Woods, E.,
Cronan, W. P.,	Johnson, T. L.,	Roper, W. G.,	Wright, H. T.
Dinger, H. C.,	Kress, J. C.,	Rutledge, C. C.,	

*Fourth Class.*

Bailey, J. E.,	Ferguson, G. S.,	Mathews, J. E.,	Vernou, W. N.,
Beckner, J. T.,	Frawley, W. J.,	Morris, T. J.,	Watson, A. E.,
Bird, O. S.,	Gleason, H. M.,	Pope, R. E.,	West, A. S.,
Bissell, H. H.,	Greenslade, J. W.,	Royall, H. H.,	White, R. D.,
Cocke, H. C.,	Helm, F. P.,	Savidge, A. C.,	Wood, R. T.,
Conger, W. H.,	Horne, F. J.,	Sayles, W. R.,	Wright, L. E.,
Courtney, C. E.,	Johnson, A. W.,	Schmidt, O.,	Yates, F. H.
Cresap, E. O.,	Kalbfus, E. C.,	Shapley, L. S.,	
Cull, J. E.,	Lackey, H. E.,	Taussig, J. K.,	
Fenner, E. B.,	Maguire, C. L.,	Thomas, S. B.,	

## UNITED STATES PRACTICE SHIP BANCROFT.

June 8 to August 30.

LIEUTENANT-COMMANDER W. T. SWINBURNE, *Commanding.*

LIEUTENANT J. A. NORRIS, <i>Executive Officer.</i>	PASSED ASSISTANT SURGEON S. S. WHITE.
LIEUTENANT DE W. COFFMAN, <i>Navigator.</i>	PASSED ASSISTANT ENGINEER F. W. BARTLETT.
ENSIGN E. H. DURELL, <i>Instructor.</i>	ASSISTANT ENGINEER H. O. STICKNEY.

## NAVAL CADETS.

*First Class—Engineer Division.*

Henry, J. B., jr.,	Lincoln, G. S.,	Littlefield, W. L.,	Marshall, A. W.,
Rice, G. B.,	Leiper, C. L.,	Fitzgerald, E. T.,	Washington, P.
Burt, C. P.,	Castleman, K. G.,	Crenshaw, A.	

*Second Class.*

First detail, June 17 to June 29.	Second detail, July 6 to July 20.	Third detail, July 27 to August 9.
Bryant, S. W.,	Asserson, W. C.,	Boyd, D. F., jr.,
DuBose, W. G.,	Bagby, R. C.,	Chase, G.,
Duncan, O. D.,	Collins, H. L.,	Day, J. A.,
Eggert, E. F.,	Giles, W. P.,	Graeme, J. W.,
Graham, A. T.,	Hart, T. C.,	Herndon, H. R.,
Hilleary, J. F.,	Henderson, R. W.,	Jenson, H. N.,
Houston, V. S.,	Hepburn, A. J.,	Landis, I. F.,
Jones, N. L.,	Holman, F. R.,	McDowell, W.,
Kautz, A.,	Hoopes, E. T.,	Magill, S. G., jr.,
Leahy, W. D.,	Keenan, E. C.,	Murfin, O. G.,
Miller, C. R.,	Kempff, C. S.,	Naylor, C. J.,
Overstreet, L. M.,	McCarthy, A. H.,	Owen, A. C.,
Pressey, A. W.,	Mahony, D. S.,	Owens, C. T.,
Sargent, L. R.,	Morse, J. W.,	Powell, J. W.,
White, W. R.	Perrill, H. P.,	Pratt, P. L.,
	Reynolds, W. H.,	Richardson, L. C.,
	Sexton, W. R.,	Roehle, C. C.,
	Sheffield, F. L.,	Smith, A. St. C., jr.,
	Van Orden, G.,	Terry, J. D.,
	Williams, H.,	Theleen, D. E.,
	Yarnell, H. E.	Webber, G.,
		Wessels, A. L.

## SYNOPSIS OF THE CRUISE, 1895.

## MONONGAHELA.

Cadets, first class, line division, and the third and fourth classes embarked June 8.  
 Sailed from Annapolis June 10.  
 Sailed from Lynnhaven Bay for Funchal, Madeira, June 13.  
 Arrived at Funchal, Madeira, July 13.  
 Sailed from Funchal July 18.  
 Arrived at Hampton Roads August 20.  
 Sailed from Hampton Roads August 22.  
 Arrived at Annapolis August 28.

BANCROFT.

Cadets, first class, engineer division, and the first detail of second class embarked June 17.  
Sailed from Annapolis June 18.  
Arrived at Port Jefferson, L. I., June 21. Sailed June 26.  
Arrived at Newport News, Va., June 28. Sailed June 28.  
Arrived at Annapolis June 29. Sailed July 8.  
Arrived at Gardiners Bay, L. I., July 10. Sailed July 16.  
Arrived at Newport News, Va., July 18. Sailed July 18.  
Arrived at Annapolis July 20. Sailed July 29.  
Arrived at Gardiners Bay, L. I., July 31. Sailed August 5.  
Arrived at Newport News, Va., August 7. Sailed August 8.  
Arrived at Annapolis August 9.

PRACTICAL INSTRUCTION AT NAVAL ACADEMY.

WORK IN MACHINE SHOP FROM JUNE 10 TO AUGUST 14.

Naval cadets of first class, engineer division.....	11
Naval cadets of second class.....	58
On board practice ships <i>Monongahela</i> and <i>Bancroft</i> .....	191
Absent on sick leave.....	4



# CLASSES OF THE NAVAL CADETS

AT THE BEGINNING OF THE ACADEMIC YEAR, 1895-'96.

[Corrected to October 4, 1895.]

*Naval Cadets of the class appointed in 1890, performing required service afloat—Line Division—33 members.*

Order of general merit.	Name.	State from which appointed.	Date of admission.
* 1	Robert, William Pierre.....	Mississippi.....	May 20, 1890
* 2	Cox, Daniel Hargate.....	New York.....	Sept. 9, 1890
* 3	Gillis, Irvin Van Gorder.....	New York.....	Sept. 6, 1890
* 4	Roberts, Thomas Gaines.....	Alabama.....	May 27, 1890
* 5	Sellers, David Foote.....	New Mexico.....	May 21, 1890
* 6	Adams, Lawrence Stowell.....	Pennsylvania.....	Sept. 26, 1890
7	Stone, Raymond.....	Alabama.....	Sept. 5, 1890
8	Tompkins, John Thomas.....	Louisiana.....	Sept. 6, 1890
9	McLean, Ridley.....	Tennessee.....	May 20, 1890
10	Webster, Charles.....	Massachusetts.....	Sept. 6, 1890
11	Babin, Provoost.....	New York.....	Sept. 6, 1890
12	Jones, Lewis Burton.....	New York.....	May 21, 1890
13	Fullinwider, Simon Peter.....	Missouri.....	May 21, 1890
14	Graham, Stephen Victor.....	Michigan.....	May 19, 1890
15	Bennett, Ernest Linwood.....	Massachusetts.....	Sept. 24, 1889
16	Luby, John McClane.....	Texas.....	Sept. 8, 1890
17	Sandoz, Fritz Louis.....	Louisiana.....	May 19, 1890
18	Galbraith, Gilbert Smith.....	Pennsylvania.....	Sept. 8, 1890
19	Shaw, Melville Jones.....	Minnesota.....	Sept. 6, 1890
20	Kavanagh, Arthur Glynn.....	Nebraska.....	May 20, 1890
21	Bookwalter, Charles Sumner.....	Illinois.....	Sept. 8, 1890
22	Scott, William Pitt.....	Pennsylvania.....	May 20, 1890
23	Snow, Carlton Farwell.....	Maine.....	May 10, 1890
24	Osborn, Robert Hatfield.....	New York.....	May 23, 1890
25	Spear, Roscoe.....	Pennsylvania.....	May 23, 1890
26	Manion, Walter James.....	Louisiana.....	Sept. 6, 1890
27	McNeely, Robert Whitehead.....	North Carolina.....	Sept. 8, 1890
28	Turpin, Walter Stevens.....	Maryland.....	May 22, 1890
29	Bulmer, Roscoe Carlyle.....	Nevada.....	Sept. 26, 1890
30	Whitted, William Scott.....	North Carolina.....	May 20, 1890
31	Stone, George Loring Porter.....	Georgia.....	Sept. 26, 1890
32	Gelm, George Earl.....	New York.....	May 22, 1890
33	England, Clarence.....	Arkansas.....	Sept. 5, 1890

## Engineer Division—13 members.

1	Hudgins, John Milton.....	Virginia.....	Sept. 8, 1890
2	McMorris, Boling Kavanaugh.....	Alabama.....	Sept. 15, 1890
3	Hinds, Alfred Walton.....	Alabama.....	Sept. 6, 1890
4	Moody, Roscoe Charles.....	Maine.....	Sept. 8, 1890
5	Cooper, Ignatius Taylor.....	Delaware.....	May 20, 1890
6	Baker, Henry Thomas.....	Ohio.....	Oct. 7, 1890
7	Chappell, Ralph Hubert.....	Michigan.....	May 22, 1890
8	James, Leland Frierson.....	South Carolina.....	Sept. 9, 1890
9	Lyon, Frank.....	Kentucky.....	May 20, 1890
10	Reeves, Joseph Mason.....	Illinois.....	Sept. 8, 1890
11	Cone, Hutch Ingham.....	Florida.....	Sept. 5, 1890
12	Winship, Emory.....	Georgia.....	June 3, 1890
13	De Lany, Edwin Hayden.....	Tennessee.....	May 21, 1890

*Naval Cadets of the class appointed in 1891, performing required service afloat—Line Division—27 members.*

Order of general merit.	Name.	State from which appointed.	Date of admission.
* 1	Smith, Stuart Farrar .....	Pennsylvania .....	Sept. 4, 1891
* 2	Groesbeck, William Gerard .....	Ohio .....	Sept. 4, 1891
3	Brumby, Frank Hardeman .....	Georgia .....	Sept. 8, 1891
4	Baldwin, Frank Pardee .....	New Jersey .....	Sept. 8, 1891
5	Davidson, William Christopher .....	South Dakota .....	Sept. 23, 1891
6	Laning, Harris .....	Illinois .....	May 19, 1891
7	Bannon, Philip Michael .....	Maryland .....	May 19, 1891
8	Chester, Arthur Tremaine .....	At large .....	May 19, 1890
9	Monaghan, John Robert .....	Washington .....	Sept. 7, 1891
10	Butler, Henry Varnum, jr. ....	New York .....	Sept. 5, 1891
11	Walker, James Erling .....	North Carolina .....	Sept. 7, 1891
12	Cushman, William Reynolds .....	New York .....	Sept. 5, 1891
13	Todd, David Wooster .....	California .....	Sept. 8, 1891
14	Raby, James Joseph .....	Michigan .....	Sept. 9, 1891
15	Standley, William Harry .....	California .....	Sept. 7, 1891
16	Gherardi, Walter Rockwell .....	At large .....	Sept. 4, 1891
17	Klemann, John Valentine .....	New York .....	Sept. 10, 1891
18	Bennett, Kenneth Marratt .....	New Jersey .....	Sept. 8, 1891
19	McCormack, Michael James .....	Michigan .....	Sept. 8, 1891
20	Bagley, Worth .....	North Carolina .....	Sept. 7, 1891
21	Wadhams, Albion James .....	New York .....	Sept. 4, 1891
22	Barnes, Cassius Bartlett .....	Oklahoma .....	Sept. 7, 1891
23	Watson, Edward Howe .....	Kentucky .....	Sept. 7, 1891
24	Breckinridge, Joseph Cabell .....	Kentucky .....	Sept. 8, 1891
25	Knepper, Orlo Smith .....	Pennsylvania .....	Sept. 4, 1891
26	Hall, Newt Hamill .....	Texas .....	Sept. 7, 1891
27	Johnston, Rufus Zenas, jr. ....	North Carolina .....	Sept. 10, 1891

*Engineer Division—12 members.*

1	Dick, Thomas Merritt .....	South Carolina .....	Sept. 5, 1891
2	Mallory, Charles King .....	Tennessee .....	Sept. 25, 1891
3	Mansfield, Newton .....	Ohio .....	Sept. 7, 1891
4	Garrison, Daniel Mershon .....	New Jersey .....	June 1, 1891
5	Karns, Franklin D .....	Ohio .....	Sept. 30, 1891
6	Morton, James Proctor .....	Missouri .....	Sept. 9, 1891
7	Freeman, Frederick Newton .....	Indiana .....	Sept. 9, 1891
8	Walker, Charles Henry .....	Massachusetts .....	Sept. 8, 1891
9	Marshall, John Francis, jr. ....	Texas .....	Sept. 8, 1891
10	Merritt, Darwin Robert .....	Iowa .....	Sept. 10, 1891
11	Dunn, Edward Howard .....	Connecticut .....	Sept. 5, 1891
12	Eckhardt, Ernest Frederick .....	Wisconsin .....	Sept. 5, 1891



*Naval Cadets of the First Class—Line Division—26 members.*

Name.	State from which appointed.	Date of admission.	Sea service in practice ships.	
			Months.	Days.
Bronson, Amon, jr.....	Nebraska.....	Sept. 30, 1892	4	22
Cluverius, Wat Tyler, jr.....	Louisiana.....	May 20, 1892	10	7
Craven, Thomas Tingey.....	New Hampshire.....	Sept. 19, 1892	7	15
Curtin, Roland Irvin.....	Pennsylvania.....	Sept. 6, 1892	7	15
Earle, Ralph.....	Massachusetts.....	Sept. 6, 1892	7	15
Ellis, Mark Saint Clair.....	Arkansas.....	July 1, 1892	8	19
Gilpin, Charles Edward.....	Michigan.....	Sept. 6, 1892	7	15
Holden, Jonas Hannibal.....	Vermont.....	May 20, 1892	10	7
Jessop, Earl Percy.....	West Virginia.....	Sept. 6, 1892	7	15
Kalbach, Andrew Edwin.....	Pennsylvania.....	July 1, 1892	8	17
Kearney, Thomas Albert.....	Missouri.....	Sept. 6, 1892	7	15
Kimball, Henry Swift.....	Massachusetts.....	Sept. 6, 1892	7	15
Knox, Dudley Wright.....	Tennessee.....	Sept. 6, 1892	7	7
MacArthur, Arthur, jr., jr.....	Wisconsin.....	Sept. 6, 1892	7	15
McCauley, Edward, jr.....	New York.....	Oct. 10, 1892	7	15
Mustin, Henry Croskey.....	Tennessee.....	Sept. 6, 1892	7	15
Palmer, Leigh Carlyle.....	Missouri.....	Sept. 6, 1892	7	15
Poor, Charles Longstreet.....	New York.....	Sept. 6, 1892	7	15
Ridgely, Frank Eugene.....	At large.....	Sept. 6, 1892	7	15
Robinson, Richard Hallett.....	Ohio.....	Sept. 6, 1892	7	15
Roys, John Holley.....	New York.....	Sept. 6, 1892	7	15
Tozer, Charles Maxson.....	New York.....	Sept. 19, 1892	7	15
Walker, Ralph Eric.....	Indiana.....	May 20, 1892	10	7
Wettengel, Ivan Cyrus.....	Colorado.....	Sept. 6, 1892	7	15
Wood, Duncan Mahon.....	Alabama.....	Sept. 30, 1892	7	15
Wurtsbaugh, Daniel Wilbert.....	Texas.....	May 20, 1892	10	7

*Engineer Division—12 members.*

Bisset, Henry Overstreet.....	Maryland.....	Sept. 6, 1892	7	15
Burt, Charles Perry.....	Georgia.....	Sept. 6, 1892	6	4
Castleman, Kenneth Galleher.....	Kentucky.....	Sept. 6, 1892	4	26
Crenshaw, Arthur.....	Alabama.....	Sept. 6, 1892	6	4
Fitzgerald, Edward Thomas.....	Texas.....	Sept. 13, 1892	6	4
Henry, James Buchanan, jr.....	New York.....	Sept. 6, 1892	6	4
Leiper, Charles Lewis.....	Pennsylvania.....	Sept. 6, 1892	6	4
Lincoln, Gatewood Sanders.....	Missouri.....	May 20, 1892	8	26
Littlefield, William Lord.....	Massachusetts.....	Sept. 30, 1892	5	26
Marshall, Albert Ware.....	Texas.....	Sept. 6, 1892	6	4
Rice, George Benjamin.....	Kentucky.....	Sept. 6, 1892	6	4
Washington, Pope.....	North Carolina.....	Sept. 7, 1892	6	4

*Naval Cadets of the Second Class—59 members.*

Name.	State from which appointed.	Date of admission.	Sea service in practice ships.	
			Months.	Days.
Anding, Sheldon Webb.....	Mississippi.....	May 19, 1893	5	20
Asserson, William Christian.....	New York.....	Sept. 25, 1893	3	8
Bagby, Robert Coleman.....	Missouri.....	Sept. 22, 1893	3	8
Boyd, David French, jr.....	Alabama.....	May 19, 1893	6	4
Bryant, Samuel Woods.....	Pennsylvania.....	May 19, 1893	6	3
Chase, Gilbert.....	Virginia.....	Sept. 6, 1893	3	7
Collins, Henry Lafayette.....	Pennsylvania.....	Sept. 6, 1893	3	8
Day, John Arthur.....	New York.....	May 19, 1893	6	4
DuBose, William Gunnell.....	Georgia.....	Sept. 6, 1893	3	21
Duncan, Oscar Dibble.....	Alabama.....	Sept. 6, 1893	3	0
Eggert, Ernest Frederick.....	Michigan.....	Sept. 6, 1893	3	6
Falconer, Walter Maxwell.....	Ohio.....	Sept. 6, 1893	2	23
Giles, William Pinkney.....	Texas.....	May 20, 1893	6	5
Graeme, Joseph Wright.....	Pennsylvania.....	Sept. 6, 1893	3	7
Graham, Andrew Thomas.....	Illinois.....	Sept. 6, 1893	3	6
Hart, Thomas Charles.....	Michigan.....	May 19, 1893	6	5
Henderson, Robert William.....	Ohio.....	Sept. 22, 1893	3	8
Hepburn, Arthur Japy.....	Pennsylvania.....	Sept. 22, 1893	3	8
Hilleary, John Francis.....	Maryland.....	Sept. 6, 1893	3	6
Holman, Frederic Ralph.....	Iowa.....	May 19, 1893	6	5
Hoopes, Edward Trimble.....	Pennsylvania.....	Sept. 6, 1893	3	8
Houston, Victor Stuart.....	South Dakota.....	Sept. 22, 1893	3	21
Jenson, Henry Norman.....	Wisconsin.....	Sept. 6, 1893	3	7
Jones, Needham Lee.....	Mississippi.....	Sept. 6, 1893	3	6
Kautz, Austin.....	Washington.....	May 19, 1893	6	3
Keenan, Ernest Clinton.....	New York.....	Sept. 6, 1893	3	8
Kempff, Clarence Selby.....	California.....	May 19, 1893	6	5
Landis, Irwin Franklin.....	Kansas.....	Sept. 6, 1893	3	7
Leahy, William Daniel.....	Wisconsin.....	May 19, 1893	6	3
McCarthy, Albert Henry.....	Iowa.....	Sept. 6, 1893	3	8
McDowell, Willis.....	Pennsylvania.....	May 19, 1893	6	4
Magill, Samuel George, jr.....	North Dakota.....	May 19, 1893	6	4
Mahony, Daniel Sullivan.....	Michigan.....	Sept. 6, 1893	3	8
Miller, Cyrus Robinson.....	California.....	Sept. 6, 1893	3	6
Morse, John Wise.....	Massachusetts.....	Sept. 6, 1893	3	8
Murfin, Orin Gould.....	Ohio.....	Sept. 6, 1893	3	7
Naylor, Charles Jacob.....	Pennsylvania.....	Sept. 6, 1893	3	7
Overstreet, Luther Martin.....	Nebraska.....	Sept. 6, 1893	3	21
Owen, Alfred Crosby.....	District of Columbia.....	Sept. 6, 1893	3	7
Owens, Charles Truesdale.....	Pennsylvania.....	Sept. 6, 1893	3	7
Perrill, Harlan Page.....	Indiana.....	Sept. 6, 1893	3	8
Powell, Joseph Wright.....	New York.....	May 19, 1893	6	4
Pratt, Peter Lloyd.....	Illinois.....	May 19, 1893	6	4
Pressey, Alfred Warren.....	Nebraska.....	May 19, 1893	6	18
Reynolds, William Herbert.....	Georgia.....	Sept. 6, 1893	3	8
Richardson, Louis Clark.....	South Carolina.....	Sept. 6, 1893	3	7
Roehle, Clifton Charles.....	Maryland.....	Sept. 6, 1893	3	7
Sargent, Leonard Rundlett.....	Minnesota.....	Sept. 6, 1893	3	6
Sexton, Walton Roswell.....	Illinois.....	May 19, 1893	6	5

*Naval Cadets of the Second Class—59 members—Continued.*

Name.	State from which appointed.	Date of admission.	Sea service in practice ships.	
			Months.	Days.
Sheffield, Fletcher Lamar.....	Georgia.....	Sept. 6, 1893	3	8
Smith, Arthur St. Clair, jr.....	Iowa.....	Sept. 6, 1893	3	7
Terry, Joseph Dandridge.....	Virginia.....	May 19, 1893	6	4
Theleen, David Elias.....	Wisconsin.....	Sept. 6, 1893	3	7
Van Orden, George.....	Michigan.....	May 19, 1893	6	5
Webber, George.....	Arkansas.....	Sept. 6, 1893	3	7
Wessels, Arthur Lewis.....	Iowa.....	May 19, 1893	6	4
White, William Russell.....	Arizona.....	Sept. 6, 1893	3	6
Williams, Hilary.....	Indiana.....	Sept. 6, 1893	3	8
Yarnell, Harry Ervin.....	Iowa.....	Sept. 6, 1893	3	8

*Naval Cadets of the Third Class—50 members.*

Name.	State from which appointed.	Date of admission.	Sea service in practice ships.	
			Months.	Days.
Abele, Clarence Arthur.....	Massachusetts.....	Sept. 6, 1894	2	23
Applewhite, Scott Carter.....	Indiana.....	May 19, 1894	5	16
Arnold, William Wood.....	New Jersey.....	May 19, 1894	5	16
Babcock, John Franklin.....	New York.....	Sept. 22, 1894	2	23
Boone, Charles.....	Ohio.....	Sept. 6, 1894	2	23
Briggs, Wilbur Gerheart.....	New York.....	Sept. 6, 1894	2	23
Briggs, Zeno Everett.....	Nebraska.....	Sept. 22, 1894	2	23
Brockway, Benjamin Little.....	South Carolina.....	Sept. 6, 1893	2	23
Brown, George, jr.....	At large.....	Sept. 6, 1893	2	23
Brown, Josephus Jarvis.....	Illinois.....	Sept. 6, 1894	2	23
Brown, Morris Hamilton.....	Indiana.....	May 19, 1894	5	16
Constien, Edward Theodore.....	Pennsylvania.....	May 19, 1894	5	16
Cotten, Lyman Atkinson.....	North Carolina.....	Sept. 6, 1894	2	23
Cronan, William Pigott.....	Connecticut.....	Sept. 6, 1894	2	23
Dinger, Henry Charles.....	Wisconsin.....	May 19, 1894	5	16
Elson, Herman Jacob.....	Mississippi.....	May 19, 1894	5	16
England, William Herbert.....	Arkansas.....	Sept. 6, 1894	2	23
Evans, Franck Taylor.....	At large.....	Sept. 6, 1894	2	23
Faller, Guy William.....	Wisconsin.....	May 19, 1894	5	16
Farrin, Thomas Benjamin, jr.....	Illinois.....	Sept. 22, 1894	2	23
Gilmer, James Blair.....	Virginia.....	May 19, 1894	5	16
Graham, John Sisson.....	Colorado.....	May 19, 1894	5	16
Halligan, John, jr.....	Massachusetts.....	Sept. 6, 1894	2	23
Hand, James Alexander, jr.....	South Dakota.....	Sept. 6, 1894	2	23
Hanrahan, David Carlisle.....	Wisconsin.....	May 19, 1894	5	16
Hord, Oliver Saunders.....	Kentucky.....	May 19, 1894	5	16
Hunter, Charles Milton.....	Ohio.....	May 19, 1894	5	16
Huntington, Arthur Franklin.....	New York.....	Sept. 12, 1894	2	23
Johnson, Thomas Lee.....	Kansas.....	May 19, 1894	5	16
Kress, James Chatham.....	Pennsylvania.....	Sept. 6, 1894	2	23
Lehfeldt, Henry August.....	Wisconsin.....	May 19, 1894	5	16
Love, James Monroe, jr.....	Virginia.....	Sept. 6, 1894	2	23
McIntyre, Edward William.....	California.....	Sept. 6, 1894	2	23
Macy, Ulysses Samuel.....	Missouri.....	Sept. 6, 1894	2	23
Madison, Zachariah Harvey.....	Illinois.....	Sept. 6, 1894	2	23
Mannix, Daniel Pratt.....	Ohio.....	Sept. 6, 1894	2	23
Marble, Ralph Norris, jr.....	Minnesota.....	May 19, 1894	5	16
Mitchell, Alexander Neely.....	Ohio.....	Sept. 6, 1894	2	23
Nelson, Charles Preston.....	Massachusetts.....	May 19, 1894	5	16
Peterson, Roscoe Lloyd.....	Michigan.....	June 1, 1894	5	16
Pettengill, George Tilford.....	Idaho at large.....	Sept. 22, 1894	2	23
Pinney, Frank Lucius.....	Connecticut.....	Sept. 6, 1894	2	23
Purse, Henry Ashby.....	Georgia.....	Sept. 6, 1894	2	23
Roper, Walter Gordon.....	Georgia.....	Sept. 22, 1894	2	23
Rutledge, Carl Clyde.....	Ohio.....	May 19, 1894	5	16
Schofield, John Anderson.....	Missouri.....	Sept. 6, 1894	2	23
Shane, Louis.....	Nebraska.....	Sept. 6, 1894	2	23
Smith, George Leonard.....	New Hampshire.....	Sept. 6, 1894	2	23
Sweet, George Cook.....	New York.....	Sept. 22, 1894	2	23

*Naval Cadets of the Third Class—50 members—Continued.*

Name.	State from which appointed.	Date of admission.	Sea service in practice ships.	
			Months.	Days.
rdy, Walter Benjamin.....	Arkansas.....	May 19, 1894	5	16
rrant, William Theodore.....	Texas.....	Sept. 6, 1894	2	23
ylor, Hugh Kirkpatrick.....	Ohio.....	Sept. 22, 1894	2	23
orpe, George Cyrus.....	Minnesota.....	May 19, 1894	4	23
atts, William Carleton.....	Pennsylvania.....	Sept. 22, 1894	2	23
ells, William Benefiel.....	Iowa.....	May 19, 1894	5	16
illiams, Henry.....	Maryland.....	Sept. 6, 1894	2	23
illiams, Yancey Sullivan.....	South Carolina.....	Sept. 6, 1894	2	23
oods, Edward.....	Massachusetts.....	May 19, 1894	5	16
right, Henry Tutwiler.....	Alabama.....	Sept. 6, 1894	2	23



*Naval Cadets of the Fourth Class—89 members.*

Name.	State from which appointed.	Date of admission.	Age at date of admission.		Sea service in practice ships.	
			Years.	Months.	Months.	Days.
Asserson, Frederick Asa.....	New York.....	Sept. 6, 1895	16	8	0	0
Bailey, John Eliot.....	Michigan.....	May 20, 1895	17	10	2	23
Beckner, John Taliaferro.....	Kentucky.....	May 20, 1895	16	8	2	23
Bird, Owen Stephen.....	At large.....	May 20, 1895	18	11	2	23
Bissell, Henry Harrison.....	New York.....	May 30 1895	19	3	2	25
Bisset, Guy Aloysius.....	Kentucky.....	Sept. 6, 1895	18	1	0	0
Bloch, Claude Charles.....	Kentucky.....	Sept. 6, 1895	17	2	0	0
Bowers, John Treadwell.....	New Jersey.....	Sept. 6, 1895	18	5	0	0
Bowman, Everett Newton.....	Iowa.....	Sept. 6, 1895	18	3	0	0
Branch, Frank Oak.....	Indiana.....	Sept. 6, 1895	17	4	0	0
Brinser, Harry Lerch.....	Pennsylvania.....	Sept. 6, 1895	18	9	0	0
Buchanan, Allen.....	Indiana.....	Sept. 6, 1895	18	9	0	0
Buttrick, James Tyler.....	Rhode Island.....	Sept. 6, 1895	19	11	0	0
Cashman, Frank Paul.....	Mississippi.....	Sept. 6, 1895	18	1	0	0
Case, William Stanhope.....	Illinois.....	Sept. 6, 1895	18	1	0	0
Clement, James Wilkinson Legare.....	South Carolina.....	Sept. 27, 1895	17	1	0	0
Cocke, Herbert Claiborne.....	Virginia.....	May 20, 1895	18	4	2	23
Cole, Cyrus Willard.....	Ohio.....	Sept. 6, 1895	19	3	0	0
Combs, James Rockwell.....	Illinois.....	Sept. 6, 1895	19	1	0	0
Conger, William Higgins.....	Pennsylvania.....	May 20, 1895	15	4	2	23
Courtney, Charles Edward.....	New York.....	May 20, 1895	17	11	2	23
Craighead, Walter Bailey.....	Louisiana.....	Sept. 20, 1895	17	7	0	0
Cresap, Edward Otho.....	Florida.....	May 20, 1895	17	6	2	23
Cull, Julius Estey.....	Vermont.....	May 20, 1895	18	9	2	23
Doyle, Stafford Henry Rahal.....	South Carolina.....	Sept. 6, 1895	19	4	0	0
Dungan, Paul Baxter.....	Nebraska.....	Sept. 6, 1895	18	2	0	0
Evans, Herbert Heard.....	Mississippi.....	Sept. 6, 1895	15	5	0	0
Fenner, Edward Blaine.....	New York.....	May 20, 1895	18	9	2	23
Ferguson, Garland Sevier.....	North Carolina.....	May 20, 1895	17	0	2	23
Fischer, Charles Hermann.....	Pennsylvania.....	Sept. 6, 1895	19	11	0	0
Forman, Charles William.....	Illinois.....	Sept. 6, 1895	18	11	0	0
Frawley, William John.....	Massachusetts.....	May 20, 1895	18	9	2	23
Gillett, Ransom Hooker.....	New York.....	Sept. 6, 1895	18	7	0	0
Gleason, Henry Miller.....	Kansas.....	May 20, 1895	18	7	2	23
Greenslade, John Wills.....	Ohio.....	May 20, 1895	15	4	2	23
Hatch, Charles Byron.....	Illinois.....	Sept. 6, 1895	17	1	0	0
Helm, Frank Pinckney, jr.....	Kentucky.....	May 20, 1895	18	2	2	23
Horne, Frederick Joseph, jr.....	New York.....	May 20, 1895	15	3	2	23
Horn, Frank John.....	Illinois.....	Sept. 20, 1895	15	6	0	0
Hunt, Walter Merrill.....	Maine.....	Sept. 6, 1895	18	11	0	0
Irwin, Algernon Charles.....	Ohio.....	Sept. 6, 1895	18	2	0	0
Jeffers, William Nicholson.....	New York.....	Sept. 20, 1895	18	6	0	0
Johnson, Alfred Wilkinson.....	At large.....	May 20, 1895	18	6	2	23
Kalbfus, Edward Clifford.....	At large.....	May 20, 1895	17	6	2	23
Kearny, Philip.....	Missouri.....	Sept. 6, 1895	17	8	0	0
Kimberly, Victor Ashfield.....	Massachusetts.....	Sept. 6, 1895	17	10	0	0
Lackey, Henry Ellis.....	At large.....	May 20, 1895	18	11	2	23
Larimer, Edgar Brown.....	Kansas.....	Sept. 6, 1895	19	1	0	0
Lewis, John Earl.....	Minnesota.....	Sept. 6, 1895	17	2	0	0
McCarty, Sterling Hicks.....	Missouri.....	Sept. 6, 1895	19	8	0	0

*Naval Cadets of the Fourth Class—89 members—Continued.*

Name.	State from which appointed.	Date of admission.	Age at date of admission.		Sea service in practice ships.	
			Years.	Months.	Years.	Months.
Cagnire, Charles Lorenzo.....	Missouri.....	May 20, 1895	17	3	2	23
Cajor, Samuel Ira Morgan.....	Kentucky.....	Sept. 6, 1895	18	0	0	0
Cathews, James Edward.....	Illinois.....	May 20, 1895	19	4	2	23
Chiller, William Siebel.....	Texas.....	Sept. 20, 1895	18	9	0	0
Montgomery, Russell.....	Oregon.....	Sept. 6, 1895	17	9	0	0
Corgan, Charles Elmer.....	West Virginia.....	Sept. 6, 1895	18	7	0	0
Corris, Thomas Jefferson.....	Ohio.....	May 20, 1895	19	3	2	23
Corrison, Farmer.....	Arkansas.....	Sept. 6, 1895	19	7	0	0
Cuir, John Church.....	California.....	Sept. 6, 1895	16	5	0	0
Cortrup, Arthur Weed.....	Ohio.....	Sept. 6, 1895	17	1	0	0
Costerhout, Frank Marcy.....	Montana, at large.....	Sept. 6, 1895	18	5	0	0
Carrish, John William Cardell.....	Indiana.....	Sept. 6, 1895	16	5	0	0
Cope, Ralph Elton.....	Nebraska.....	May 20, 1895	19	4	2	23
Coyall, Hilary Herbert.....	Alabama.....	May 20, 1895	18	9	2	23
Cadler, Everit Jay.....	Kansas.....	Sept. 20, 1895	16	4	0	0
Cavidge, Albert Clinton.....	Pennsylvania.....	May 20, 1895	15	1	2	23
Cayles, William Randall.....	Rhode Island.....	May 20, 1895	17	5	2	23
Chmidt, Oscar.....	Indiana.....	May 27, 1895	16	8	2	23
Chackford, Chauncey.....	New Jersey.....	Sept. 6, 1895	18	5	0	0
Chapley, Lloyd Stowell.....	Missouri.....	May 30, 1895	19	6	2	23
Cmith, Clyde Wilbur.....	Iowa.....	Sept. 6, 1895	16	10	0	0
Cparrow, Herbert George.....	Ohio.....	Sept. 6, 1895	18	1	0	0
Caussig, Joseph Knefler.....	At large.....	May 30, 1895	17	9	2	23
Thomas, Samuel Brown.....	At large.....	May 30, 1895	17	4	2	23
Comb, James Harvey.....	Missouri.....	Sept. 6, 1895	19	0	0	0
Curner, Robert Francis.....	Iowa.....	Sept. 6, 1895	19	8	0	0
Cernou, Walter Newhall.....	Oregon.....	May 20, 1895	17	3	2	23
Cincent, Roe Willis.....	Pennsylvania.....	Sept. 6, 1895	18	4	0	0
Catson, Adolphus Eugene.....	At large.....	May 30, 1895	16	9	2	23
Cweichert, Ernest Augustus.....	Connecticut.....	Sept. 6, 1895	17	11	0	0
Cwells, Daniel Hamner.....	Utah, at large.....	Sept. 6, 1895	19	11	0	0
Cwest, Arthur Stuart.....	Georgia.....	May 20, 1895	16	2	2	23
Cwhite, Richard Drace.....	Missouri.....	May 20, 1895	18	1	2	23
Cwood, Robert Thompson.....	New York.....	May 20, 1895	16	0	2	23
Cwood, Welborn Cicero.....	Georgia.....	Sept. 6, 1895	19	8	0	0
Cwoodward, Clark Howell, jr.....	Georgia.....	Sept. 6, 1895	18	6	0	0
Cwright, Luke Edward.....	Tennessee.....	May 20, 1895	17	11	2	23
Cvyman, Henry Lake.....	Illinois.....	Sept. 6, 1895	16	9	0	0
Czates, Fred Hammond.....	Maine.....	May 20, 1895	16	4	2	23

## SUMMARY OF CADETS AT THE U. S. NAVAL ACADEMY.

October, 1895.

Members.

First Class	Line Division.....	26	} 38
	Engineer Division.....	12	
Second Class.....			59
Third Class.....			59
Fourth Class.....			89
Total.....			245





## RELATIVE STANDING OF NAVAL CADETS FOR 1894-'95.

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*Classes of the Naval Cadets at the United States Naval Academy, at the close of the Academic Year 1894-'95; with the relative standing of the members in each class, as determined at the Annual Examination, June, 1895.*

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*P Physically disqualified for the naval service.*

*\* Received 85 per cent of the multiple.*

*+ Found deficient, allowed a reëxamination, passed, and continued with class.*

*§ Found deficient, and recommended to be dropped.*

*a Absent from examination.*

*e Selected for Engineer Division.*

*w Found deficient, warned.*

*Relative Standing of the Naval Cadets of the First Class—*

Order of annual merit.	Name.	State from which appointed.	Date of admission.	Age at date of admission.	
				Years.	Months.
28	Bagley, Worth .....	North Carolina.....	Sept. 7, 1891	17	5
2	Baldwin, Frank Pardee.....	New Jersey.....	Sept. 8, 1891	17	11
18	Bannon, Philip Michael.....	Maryland.....	May 19, 1891	19	2
17	Barnes, Cassius Bartlett.....	Oklahoma.....	Sept. 7, 1891	19	8
21	Bennett, Kenneth Maratt.....	New Jersey.....	Sept. 8, 1891	16	9
29	Breckinridge, Joseph Cabell.....	Kentucky.....	Sept. 8, 1891	19	6
4	Brumby, Frank Hardeman.....	Georgia.....	Sept. 8, 1891	16	11
8	Butler, Henry Varnum, jr.....	New York.....	Sept. 5, 1891	17	6
13	Chester, Arthur Tremaine.....	At large.....	May 19, 1890	15	9
10	Cushman, William Reynolds.....	New York.....	Sept. 5, 1891	16	4
3	Davidson, William Christopher.....	South Dakota.....	Sept. 23, 1891	19	2
23	Gherardi, Walter Rockwell.....	At large.....	Sept. 4, 1891	16	1
5	Groesbeck, William Gerard.....	Ohio.....	Sept. 4, 1891	17	0
25	Hall, Newt Hamill.....	Texas.....	Sept. 7, 1891	18	8
16	Johnston, Rufus Zenas, jr.....	North Carolina.....	Sept. 10, 1891	17	2
11	Klemann, John Valentine.....	New York.....	Sept. 10, 1891	15	10
22	Knepper, Orlo Smith.....	Pennsylvania.....	Sept. 4, 1891	16	3
6	Laning, Harris.....	Illinois.....	May 19, 1891	17	7
19	McCormack, Michael James.....	Michigan.....	Sept. 8, 1891	17	10
7	Monaghan, John Robert.....	Washington.....	Sept. 7, 1891	18	5
15	Raby, James Joseph.....	Michigan.....	Sept. 9, 1891	16	11
27	Sayers, Joseph Draper, jr.....	New York.....	Sept. 5, 1891	16	6
*1	Smith, Stuart Farrar.....	Pennsylvania.....	Sept. 4, 1891	16	10
14	Standley, William Harry.....	California.....	Sept. 7, 1891	18	8
12	Todd, David Wooster.....	California.....	Sept. 8, 1891	17	2
20	Vestal, Samuel Curtis.....	Indiana.....	May 19, 1891	18	1
24	Wadhams, Albion James.....	New York.....	Sept. 4, 1891	16	4
9	Walker, James Erling.....	North Carolina.....	Sept. 7, 1891	17	0
26	Watson, Edward Howe.....	Kentucky.....	Sept. 7, 1891	17	6

*Line Division—29 members—Annual Examination, June, 1895.*

Order of merit in—												Sea service in practice ships.		Order of annual merit.
Seamanship, naval construction, and naval tactics.	Seamanship, practice cruise.	Ordnance and gunnery.	Navigation and surveying.	Navigation, practice cruise.	Least squares and applied me- chanics.	Physics.	International law.	Physiology and hygiene.	Efficiency.	Conduct.	Number of demerits.	Months.	Days.	
27	17	28	24	6	25	26	22	9	10	28	101	5	15	28
3	7	2	4	3	6	2	10	9	2	13	36	5	15	2
13	3	26	22	24	25	15	24	24	3	12	33	8	8	18
19	22	13	11	26	7	10	17	28	25	23	68	5	2	17
24	10	19	20	25	21	21	18	13	21	18	52	5	15	21
29	21	29	28	4	18	28	1	19	21	27	97	5	15	29
6	22	3	1	1	5	9	4	14	27	6	22	5	11	4
8	4	7	15	15	10	5	29	16	4	8	31	5	15	8
9	9	12	16		12	15	26	22	7	13	38	5	25	13
12	5	14	7	17	2	19	21	5	15	21	66	5	15	10
1	12	4	9	2	11	4	4	2	5	5	22	5	11	3
16	16	24	22	22	29	25	20	18	12	15	43	5	15	23
5	14	4	3	5	3	3	11	27	13	20	57	5	15	5
28	24	27	24	13	15	21	16	26	17	7	16	2	22	25
14	15	9	13	22	25	14	24	17	17	22	70	5	15	16
11	26	11	10	17	8	11	12	11	29	11	31	5	15	11
21	29	17	16	21	20	18	27	15	28	19	53	5	15	22
3	2	6	5	9	14	7	9	8	7	2	13	8	4	6
22	19	22	29	20	24	26	8	1	7	1	7	5	15	19
16	25	9	7	8	4	8	3	19	21	9	31	5	15	7
22	8	21	11	12	16	12	23	19	17	3	16	5	15	15
26	28	23	26	26	22	24	6	5	26	29	81	5	15	27
2	1	1	2	7	1	1	2	7	1	4	16	5	4	*1
16	6	16	20	17	17	13	14	4	5	9	32	5	15	14
7	13	15	14	10	25	21	15	3	11	15	43	4	18	12
14	26	20	18	28	12	20	7	29	24	17	53	8	8	20
20	19	18	19	13	18	15	28	12	13	25	88	5	15	24
10	10	8	6	10	9	6	19	23	15	24	76	5	15	9
25	18	25	27	29	23	29	13	24	20	25	87	4	15	26

*Relative Standing of the Naval Cadets of the First Class—*

Order of annual merit.	Name.	State from which appointed.	Date of admission.	Age at date of admission.	
				Years.	Months.
* 2	Dick, Thomas Merritt .....	South Carolina .....	Sept. 5, 1891	18	5
11	Dunn, Edward Howard .....	Connecticut .....	Sept. 5, 1891	18	5
12	Eckhardt, Ernest Frederick .....	Wisconsin .....	Sept. 5, 1891	18	9
5	Freeman, Frederick Newton .....	Indiana .....	Sept. 9, 1891	15	9
3	Garrison, Daniel Mershon .....	New Jersey .....	June 1, 1891	17	1
6	Karns, Franklin D. ....	Ohio .....	Sept. 30, 1891	17	9
* 1	Mallory, Charles King .....	Tennessee .....	Sept. 25, 1891	16	1
4	Mansfield, Newton .....	Ohio .....	Sept. 7, 1891	17	11
10	Marshall John Francis, jr. ....	Texas .....	Sept. 8, 1891	17	8
9	Merritt, Darwin Robert .....	Iowa .....	Sept. 10, 1891	19	4
8	Morton, James Proctor .....	Missouri .....	Sept. 9, 1891	17	7
7	Walker, Charles Henry .....	Massachusetts .....	Sept. 8, 1891	17	10

Engineer Division—12 members—Annual Examination, June, 1895.

Sea service.		Order of merit in—										Number of demerits.	Order of annual merit.
Months.	Days.	Naval construction.	Designing machinery.	Marine engines.	Boilers.	Summer practical work in steam engineering.	Least squares and applied mechanics.	Physics.	Physiology and hygiene.	Efficiency.	Conduct.		
4	17	2	1	2	2	1	2	3	6	2	1	19	* 2
5	15	11	11	9	11	10	12	11	7	11	11	105	11
5	15	10	12	12	12	10	7	12	10	12	12	149	12
4	17	8	5	4	5	8	8	7	5	6	5	46	5
7	8	4	3	3	3	4	4	2	3	5	7	80	3
4	17	6	7	6	6	4	5	5	1	4	4	29	6
4	17	1	1	1	1	4	1	1	9	2	2	27	* 1
4	17	3	4	7	3	1	6	4	4	1	6	67	4
4	17	9	10	11	7	10	10	10	11	10	8	77	10
4	17	12	9	10	10	7	9	9	8	9	9	92	9
4	17	5	8	5	9	8	3	6	12	7	10	102	8
4	17	7	6	8	8	1	11	8	2	8	2	27	7

*Relative Standing of the Naval Cadets of the Second*

Order of annual merit.	Name.	State from which appointed.	Date of admission.
e12	Bissett, Henry Overstreet.....	Maryland.....	Sept. 6, 1892
†	Bronson, Amon, jr.....	Nebraska.....	Sept. 30, 1892
e26	Burt, Charles Perry.....	Georgia.....	Sept. 6, 1892
e29	Castleman, Kenneth Galleher.....	Kentucky.....	Sept. 6, 1892
18	Cluverius, Wat Tyler, jr.....	Louisiana.....	May 20, 1892
4	Craven, Thomas Tingey.....	New Hampshire.....	Sept. 19, 1892
e35	Crenshaw, Arthur.....	Alabama.....	Sept. 6, 1892
34	Curtin, Roland Irvin.....	Pennsylvania.....	Sept. 6, 1892
§	Doak, Henry Melville, jr.....	Tennessee.....	Sept. 19, 1892
9	Earle, Ralph.....	Massachusetts.....	Sept. 6, 1892
19	Ellis, Mark Saint Clair.....	Arkansas.....	July 1, 1892
e14	Fitzgerald, Edward Thomas.....	Texas.....	Sept. 13, 1892
28	Gilpin, Charles Edward.....	Michigan.....	Sept. 6, 1892
§	Hauenstein, George Jacob.....	Mississippi.....	Sept. 6, 1892
e36	Henry, James Buchanan, jr.....	New York.....	Sept. 6, 1892
2	Holden, Jonas Hannibal.....	Vermont.....	May 20, 1892
27	Jessop, Earl Percy.....	West Virginia.....	Sept. 6, 1892
Pa	Jones, Junius Henry.....	Virginia.....	Sept. 19, 1892
8	Kalbach, Andrew Edwin.....	Pennsylvania.....	July 1, 1892
17	Kearney, Thomas Albert.....	Missouri.....	Sept. 6, 1892
16	Kimball, Henry Swift.....	Massachusetts.....	Sept. 6, 1892
25	Knox, Dudley Wright.....	Tennessee.....	Sept. 6, 1892
e3	Leiper, Charles Lewis.....	Pennsylvania.....	Sept. 6, 1892
e7	Lincoln, Gatewood Sanders.....	Missouri.....	May 20, 1892
e31	Littlefield, William Lord.....	Massachusetts.....	Sept. 30, 1892
24	MacArthur, Arthur, jr., jr.....	Wisconsin.....	Sept. 6, 1892
30	McCauley, Edward, jr.....	New York.....	Oct. 10, 1892
e20	Marshall, Albert Ware.....	Texas.....	Sept. 6, 1892
P21	Middleton, George Izard.....	South Carolina.....	Sept. 9, 1892
32	Mustin, Henry Croskey.....	Tennessee.....	Sept. 6, 1892
22	Palmer, Leigh Carlyle.....	Missouri.....	Sept. 6, 1892
6	Poor, Charles Longstreet.....	New York.....	Sept. 6, 1892
e†	Rice, George Benjamin.....	Kentucky.....	Sept. 6, 1892
23	Ridgely, Frank Eugene.....	At large.....	Sept. 6, 1892
*1	Robinson, Richard Hallett.....	Ohio.....	Sept. 6, 1892
†	Roys, John Halley.....	New York.....	Sept. 6, 1892
11	Tozer, Charles Maxson.....	New York.....	Sept. 19, 1892
5	Walker, Ralph Eric.....	Indiana.....	May 20, 1892
e33	Washington, Pope.....	North Carolina.....	Sept. 7, 1892
15	Wettengel, Ivan Cyrus.....	Colorado.....	Sept. 6, 1892
13	Wood, Duncan Mahon.....	Alabama.....	Sept. 30, 1892
10	Wurtsbaugh, Daniel Wilbert.....	Texas.....	Mar. 20, 1892



Class—42 members—Annual Examination, June, 1895.

Age at date of admission.		Order of merit in—										Number of demerits.	Order of annual merit.
Years.	Months.	Seamanship.	Astronomy.	Steam machinery, marine engines, and boilers.	Summer practical work in steam engineering.	Calculus and mechanics.	Physics and chemistry.	French.	Mechanical drawing.	Efficiency.	Conduct.		
19	10	28	8	24	33	9	6	7	36	27	8	49	e 12
16	0	36	37	40	42	18	34	34	38	42	42	199	†
17	2	15	24	22	12	33	25	21	24	27	26	80	e 26
16	5	32	26	37	14	35	9	18	17	6	40	153	e 29
17	4	20	15	15	30	20	10	14	38	31	27	80	18
19	2	1	13	7	5	3	14	16	6	3	17	63	4
17	6	39	41	37	26	35	39	40	40	14	12	61	e 35
18	3	30	35	27	41	23	31	41	30	41	37	144	34
17	3	41	31	41	35	40	36	38	42	36	32	108	§
18	4	10	10	4	35	12	10	14	6	23	8	47	9
19	3	24	22	18	12	16	23	17	20	38	22	72	19
17	11	9	14	7	9	15	18	28	12	19	12	57	e 14
19	9	22	40	30	18	27	38	1	10	8	15	58	28
16	11	34	37	39	33	40	40	31	32	40	16	64	§
16	8	34	33	35	30	38	32	38	35	39	36	137	e 36
19	1	1	5	2	1	11	7	19	2	1	1	19	2
19	0	16	25	28	18	27	27	26	34	25	10	54	27
18	2	(a)	(a)	(a)	23	(a)	(a)	(a)	17	23	2	26	Pa.
19	10	22	6	14	9	4	4	12	21	7	7	50	8
17	6	17	18	16	6	30	18	20	16	5	4	37	17
18	7	14	18	19	3	24	18	11	13	2	21	70	16
15	2	21	26	30	24	26	23	33	5	25	6	49	25
16	6	3	10	3	14	5	2	3	4	14	22	71	e 3
16	9	4	9	9	14	6	3	10	37	13	24	71	e 7
18	9	33	36	30	2	25	27	27	9	14	39	170	e 31
16	3	30	17	26	20	16	18	28	14	29	30	88	24
17	1	27	26	29	38	32	33	23	28	10	24	76	30
18	5	25	18	19	26	19	17	37	26	18	11	55	e 20
17	7	23	21	21	8	27	26	6	21	36	17	65	P 21
18	7	19	30	25	39	35	30	30	1	33	41	170	32
19	7	18	29	13	9	21	29	12	15	8	33	110	22
18	11	6	3	4	26	8	8	2	17	11	12	60	6
19	4	40	39	34	24	33	40	34	41	35	38	154	†
17	2	26	22	17	14	21	22	9	31	22	34	108	23
17	5	8	1	1	7	1	1	4	8	3	5	41	* 1
15	4	36	31	33	30	39	35	21	33	20	35	132	e †
16	2	13	4	12	20	10	16	24	23	14	20	65	11
15	8	11	2	6	26	2	5	4	11	21	31	97	5
19	11	38	34	35	35	31	37	36	28	33	29	86	e 33
16	3	4	6	11	20	14	13	8	26	29	28	81	15
15	11	6	16	10	39	13	14	31	3	31	17	63	13
19	3	12	12	23	3	7	12	24	25	11	3	36	10

*Relative Standing of the Naval Cadets of the Third*

Order of annual merit.			
	Name.	State from which appointed.	Date of admission.
34	Anding, Sheldon Webb.....	Mississippi.....	May 19, 1893
36	Asserson, William Christian.....	New York.....	Sept. 25, 1893
37	Bagby, Robert Coleman.....	Missouri.....	Sept. 22, 1893
19	Boyd, David French, jr.....	Alabama.....	May 19, 1893
55	Bryant, Samuel Woods.....	Pennsylvania.....	May 19, 1893
9	Chase, Gilbert.....	Virginia.....	Sept. 6, 1893
28	Collins, Henry Lafayette.....	Pennsylvania.....	Sept. 6, 1893
W	Day, John Arthur.....	New York.....	May 19, 1893
* 1	Du Bose, William Gunnell.....	Georgia.....	Sept. 6, 1893
50	Duncan, Oscar Dibble.....	Alabama.....	Sept. 6, 1893
* 2	Eggert, Ernest Frederick.....	Michigan.....	Sept. 6, 1893
46	Falconer, Walter Maxwell.....	Ohio.....	Sept. 6, 1893
44	Giles, William Pinkney.....	Texas.....	May 20, 1893
16	Graeme, Joseph Wright.....	Pennsylvania.....	Sept. 6, 1893
41	Graham, Andrew Thomas.....	Illinois.....	Sept. 6, 1893
26	Hart, Thomas Charles.....	Michigan.....	May 19, 1893
40	Henderson, Robert William.....	Ohio.....	Sept. 22, 1893
14	Hepburn, Arthur Japy.....	Pennsylvania.....	Sept. 22, 1893
P27	Herndon, Henry Raymond.....	Texas.....	May 19, 1893
56	Hilleary, John Francis.....	Maryland.....	Sept. 6, 1893
21	Holman, Frederic Ralph.....	Iowa.....	May 19, 1893
25	Hoopes, Edward Trimble.....	Pennsylvania.....	Sept. 6, 1893
12	Houston, Victor Stuart.....	South Dakota.....	Sept. 22, 1893
33	Jenson, Henry Norman.....	Wisconsin.....	Sept. 6, 1893
6	Jones, Needham Lee.....	Mississippi.....	Sept. 6, 1893
31	Kautz, Austin.....	Washington.....	May 19, 1893
54	Keenan, Ernest Clinton.....	New York.....	Sept. 6, 1893
45	Kempff, Clarence Selby.....	California.....	May 19, 1893
47	Landis, Irwin Franklin.....	Kansas.....	Sept. 6, 1893
52	Leahy, William Daniel.....	Wisconsin.....	May 19, 1893
30	McCarthy, Albert Henry.....	Iowa.....	Sept. 6, 1893
39	McDowell, Willis.....	Pennsylvania.....	May 19, 1893
57	Magill, Samuel George, jr.....	North Dakota.....	May 19, 1893
24	Mahony, Daniel Sullivan.....	Michigan.....	Sept. 6, 1893
13	Miller, Cyrus Robinson.....	California.....	Sept. 6, 1893
48	Morse, John Wise.....	Massachusetts.....	Sept. 6, 1893
17	Murfin, Orin Gould.....	Ohio.....	Sept. 6, 1893
58	Naylor, Charles Jacob.....	Pennsylvania.....	Sept. 6, 1893
11	Overstreet, Luther Martin.....	Nebraska.....	Sept. 6, 1893
42	Owen, Alfred Crosby.....	District of Columbia.....	Sept. 6, 1893
51	Owens, Charles Truesdale.....	Pennsylvania.....	Sept. 6, 1893
7	Perrill, Harlan Page.....	Indiana.....	Sept. 6, 1893
* 5	Powell, Joseph Wright.....	New York.....	May 19, 1893



Class—60 members—Annual Examination, June, 1895.

Age at date of admission.		Order of merit in—							Number of demerits.	Order of annual merit.
Years.	Months.	Trigonometry, analytical geometry, and descriptive geometry.	Physics and chemistry.	English and law.	French, Spanish, and German.	Mechanical drawing.	Efficiency.	Conduct.		
19	6	53	41	41	46	21	37	9	31	34
18	0	51	27	59	44	10	42	34	102	36
16	11	47	41	28	13	58	41	19	58	37
16	8	14	19	19	22	13	12	55	217	19
15	11	56	52	56	30	52	50	40	128	55
19	11	17	8	24	12	4	34	30	67	9
16	9	8	12	46	32	41	31	48	160	28
17	8	39	58	53	4	55	12	60	249	W
16	11	1	3	1	2	14	1	1	3	*1
19	1	48	50	57	57	15	59	44	148	50
17	3	2	1	12	5	2	37	23	74	*2
17	8	26	46	49	50	17	31	58	226	46
18	1	58	55	47	60	30	11	2	19	44
18	0	39	15	5	14	21	19	21	72	16
19	0	51	25	41	55	34	43	18	51	41
15	11	31	22	27	37	23	21	31	97	26
16	5	35	28	37	33	37	43	39	129	40
15	11	15	5	7	9	34	4	51	174	14
17	4	22	36	15	18	50	29	31	99	P27
19	9	53	60	57	54	40	47	34	100	56
19	2	15	31	17	23	32	37	27	85	21
17	9	6	25	50	27	12	50	57	222	25
17	2	29	48	26	1	3	12	38	122	12
17	7	34	56	40	40	23	37	11	39	33
18	9	19	10	2	3	19	22	11	38	6
19	8	29	44	28	21	48	29	16	50	31
17	8	42	56	30	41	60	58	43	137	54
18	11	58	53	45	52	28	8	21	71	45
18	2	24	30	23	45	59	55	40	131	47
18	0	41	35	37	35	51	55	49	172	52
17	8	24	37	19	46	43	12	6	27	30
18	3	31	18	30	41	53	24	27	85	39
17	9	42	47	54	59	41	57	56	212	57
19	8	10	17	4	14	54	47	52	184	24
18	11	20	2	13	10	27	34	44	135	13
18	3	60	59	41	23	44	12	19	57	48
17	4	17	31	16	37	20	17	7	30	17
17	11	57	53	60	41	55	54	42	139	58
19	10	8	14	33	58	1	9	13	42	11
18	0	35	45	33	25	39	53	47	160	42
15	3	27	43	44	46	55	60	46	145	51
18	9	4	5	9	19	38	5	7	29	7
16	3	5	12	11	17	8	2	3	22	*5

*Relative Standing of the Naval Cadets of the Third Class—*

Order of annual merit.	Name.	State from which appointed.	Date of admission.
53	Pratt, Peter Lloyd.....	Illinois.....	May 19, 1893
10	Pressey, Alfred Warren.....	Nebraska.....	May 19, 1893
15	Reynolds, William Herbert.....	Georgia.....	Sept. 6, 1893
20	Richardson, Louis Clark.....	South Carolina.....	Sept. 6, 1893
23	Roehle, Clifton Charles.....	Maryland.....	Sept. 6, 1893
22	Sargent, Leonard Rundlett.....	Minnesota.....	Sept. 6, 1893
29	Sexton, Walton Roswell.....	Illinois.....	May 19, 1893
* 4	Sheffield, Fletcher Lamar.....	Georgia.....	Sept. 6, 1863
34	Smith, Arthur St. Clair, jr.....	Iowa.....	Sept. 6, 1893
43	Terry, Joseph Dandridge.....	Virginia.....	May 19, 1893
8	Theleen, David Elias.....	Wisconsin.....	Sept. 6, 1893
W	Van Orden, George.....	Michigan.....	May 19, 1893
38	Webber, George.....	Arkansas.....	Sept. 6, 1893
49	Wessels, Arthur Lewis.....	Iowa.....	May 19, 1893
18	White, William Russell.....	Arizona.....	Sept. 6, 1893
32	Williams, Hilary.....	Indiana.....	Sept. 6, 1893
* 3	Yarnell, Harry Ervin.....	Iowa.....	Sept. 6, 1893

members—Annual Examination, June, 1895—Continued.

Age at date of admission.		Order of merit in—							Number of demerits.	Order of annual merit.
Years.	Months.	Trigonometry, analytical geometry, and descriptive geometry.	Physics and chemistry.	English and law.	French, Spanish, and German.	Mechanical drawing.	Efficiency.	Conduct.		
18	5	53	51	52	27	36	45	49	163	53
19	11	12	4	17	7	15	24	37	98	10
19	4	23	29	22	19	9	17	26	77	15
18	10	13	31	25	46	28	28	5	25	20
16	0	38	21	37	37	11	6	14	45	23
17	1	21	22	6	11	48	46	31	95	22
16	8	45	19	35	35	26	9	29	88	29
17	6	3	7	7	6	17	3	10	36	*4
19	8	31	31	19	50	47	24	16	52	34
19	3	49	22	54	30	46	34	23	73	43
17	10	10	10	10	27	4	19	15	49	8
15	1	45	48	48	52	45	52	59	245	W
16	4	50	37	35	33	31	31	25	74	38
19	10	44	37	50	55	25	22	54	213	49
17	3	27	16	14	14	6	47	52	188	18
18	3	37	40	30	26	32	24	34	92	32
17	10	7	9	3	8	7	6	4	24	*3

*Relative Standing of the Naval Cadets of the Fourth*

Order of annual merit.	Name.	State from which appointed.	Date of admission.
24	Abele, Clarence Arthur.....	Massachusetts.....	Sept. 6, 1894
52	Applewhite, Scott Carter.....	Indiana.....	May 19, 1894
38	Arnold, William Wood.....	New Jersey.....	May 19, 1894
53	Babcock, John Franklin.....	New York.....	Sept. 22, 1894
13	Boone, Charles.....	Ohio.....	Sept. 6, 1894
9	Briggs, Wilbur Gerheart.....	New York.....	Sept. 6, 1894
31	Briggs, Zeno Everett.....	Nebraska.....	Sept. 22, 1894
50	Brockway, Benjamin Little.....	South Carolina.....	Sept. 6, 1893
45	Brown, George, jr.....	At large.....	Sept. 6, 1893
19	Brown, Josephus Jarvis.....	Illinois.....	Sept. 6, 1894
21	Brown, Morris Hamilton.....	Indiana.....	May 19, 1894
44	Constien, Edward Theodore.....	Pennsylvania.....	May 19, 1894
26	Cotten, Lyman Atkinson.....	North Carolina.....	Sept. 6, 1894
43	Cronan, William Pigott.....	Connecticut.....	Sept. 6, 1894
20	Dinger, Henry Charles.....	Wisconsin.....	May 19, 1894
22	Elson, Herman Jacob.....	Mississippi.....	May 19, 1894
39	England, William Herbert.....	Arkansas.....	Sept. 6, 1894
30	Evans, Franck Taylor.....	At large.....	Sept. 6, 1894
40	Faller, Guy William.....	Wisconsin.....	May 19, 1894
35	Farrin, Thomas Benjamin, jr.....	Illinois.....	Sept. 22, 1894
48	Gilmer, James Blair.....	Virginia.....	May 19, 1894
†	Graham, John Sisson.....	Colorado.....	May 19, 1894
* 2	Halligan, John, jr.....	Massachusetts.....	Sept. 6, 1894
* 3	Hand, James Alexander, jr.....	South Dakota.....	Sept. 6, 1894
†	Hanrahan, David Carlisle.....	Wisconsin.....	May 19, 1894
†	Hord, Oliver Saunders.....	Kentucky.....	May 19, 1894
50	Hunter, Charles Milton.....	Ohio.....	May 19, 1894
†	Huntington, Arthur Franklin.....	New York.....	Sept. 12, 1894
33	Johnson, Thomas Lee.....	Kansas.....	May 19, 1894
34	Kress, James Chatham.....	Pennsylvania.....	Sept. 6, 1894
†	Lehfeldt, Henry August.....	Wisconsin.....	May 19, 1894
16	Love, James Monroe, jr.....	Virginia.....	Sept. 6, 1894
11	McIntyre, Edward William.....	California.....	Sept. 6, 1894
28	Macy, Ulysses Samuel.....	Missouri.....	Sept. 6, 1894
46	Madison, Zachariah Harvey.....	Illinois.....	Sept. 6, 1894
32	Mannix, Daniel Pratt.....	Ohio.....	Sept. 6, 1894
23	Marble, Ralph Norris, jr.....	Minnesota.....	May 19, 1894
25	Mitchell, Alexander Neely.....	Ohio.....	Sept. 6, 1894
36	Nelson, Charles Preston.....	Massachusetts.....	May 19, 1894
41	Peterson, Roscoe Lloyd.....	Michigan.....	June 1, 1894
10	Pettengill, George Tilford.....	Idaho, at large.....	Sept. 22, 1894
15	Pinney, Frank Lucius.....	Connecticut.....	Sept. 6, 1894

Class—60 members—Annual Examination, June, 1895.

Age at date of admission.		Order of merit in—					Number of demerits.	Order of annual merit.
Years.	Months.	Algebra and geometry.	English and history.	French, Spanish, and German.	Efficiency.	Conduct.		
17	10	22	15	29	51	43	87	24
18	4	52	44	57	52	31	62	52
17	7	36	39	39	3	13	45	38
15	0	48	49	52	45	51	119	53
17	11	10	19	17	8	10	33	13
18	7	13	10	14	27	1	5	9
17	11	27	27	40	17	7	25	31
18	9	47	56	47	33	24	54	50
18	1	48	57	42	1	3	8	45
16	7	23	13	18	24	44	93	19
17	6	23	21	12	36	24	55	21
18	6	42	43	54	36	4	24	44
19	8	14	20	56	6	7	25	26
15	7	45	47	38	41	21	51	43
18	2	17	14	27	57	27	58	20
18	4	30	27	13	41	27	59	22
17	10	55	22	36	59	42	85	39
18	11	33	39	8	20	53	128	30
16	1	29	46	49	49	35	70	40
17	7	45	24	28	45	17	47	35
18	2	53	39	51	27	13	45	48
19	1	56	42	57	20	41	82	†
18	3	2	2	3	20	18	49	* 2
18	11	4	4	7	27	13	44	* 3
18	9	57	57	57	20	54	133	†
18	3	53	54	60	52	60	192	†
19	8	40	50	43	60	59	154	50
17	6	58	55	53	57	57	143	†
19	1	35	27	33	17	23	52	33
17	3	30	38	20	24	50	109	34
18	5	58	33	32	27	52	126	†
19	6	15	23	25	3	12	40	16
17	6	11	7	24	55	13	44	11
17	8	25	26	33	45	24	55	28
17	8	39	48	46	49	47	102	46
16	0	41	30	23	11	36	73	32
15	2	8	33	40	11	36	73	23
18	11	32	18	29	45	11	39	25
17	3	34	50	22	5	39	80	36
17	10	38	59	31	8	49	102	41
16	10	16	5	8	27	58	153	10
19	9	9	30	20	15	33	66	15

*Relative Standing of the Naval Cadets of the Fourth*

Order of annual merit.			
	Name.	State from which appointed.	Date of admission.
37	Purse, Henry Ashby.....	Georgia.....	Sept. 6, 1894
42	Roper, Walter Gordon.....	Georgia.....	Sept. 22, 1894
14	Rutledge, Carl Clyde.....	Ohio.....	May 19, 1894
47	Schofield, John Anderson.....	Missouri.....	Sept. 6, 1894
5	Shane, Louis.....	Nebraska.....	Sept. 6, 1894
5	Shockley, Augustus Wroten.....	Kansas.....	May 12, 1894
12	Smith, George Leonard.....	New Hampshire.....	Sept. 6, 1894
54	Sweet, George Cook.....	New York.....	Sept. 22, 1894
28	Tardy, Walter Benjamin.....	Arkansas.....	May 19, 1894
8	Tarrant, William Theodore.....	Texas.....	Sept. 6, 1894
18	Taylor, Hugh Kirkpatrick.....	Ohio.....	Sept. 22, 1894
49	Thorpe, George Cyrus.....	Minnesota.....	May 19, 1894
* 4	Watts, William Carleton.....	Pennsylvania.....	Sept. 22, 1894
27	Wells, William Benefiel.....	Iowa.....	May 19, 1894
7	Williams, Henry.....	Maryland.....	Sept. 6, 1894
17	Williams, Yancey Sullivan.....	South Carolina.....	Sept. 6, 1894
6	Woods, Edward.....	Massachusetts.....	May 19, 1894
* 1	Wright, Henry Tutwiler.....	Alabama.....	Sept. 6, 1894



Class—60 members—Annual Examination, June, 1895—Continued.

Age at date of admission.		Order of merit in—					Number of demerits.	Order of merit.
Years.	Months.	Algebra and geometry.	English and history.	French, Spanish, and German.	Efficiency.	Conduct.		
16	5	48	37	19	56	9	28	37
18	11	21	44	50	17	56	141	42
17	7	43	8	4	11	18	49	14
18	6	36	53	54	33	32	65	47
17	4	17	16	1	41	45	96	5
19	11	60	35	36	11	38	75	5
18	0	5	24	11	15	27	59	12
17	3	48	60	48	41	55	138	54
18	11	26	12	44	24	33	67	28
16	1	19	6	5	52	30	60	8
19	7	27	17	14	10	6	22	18
19	4	44	50	44	36	47	102	49
15	8	6	3	6	36	39	80	* 4
17	4	20	32	33	40	21	50	27
17	0	1	11	25	33	18	49	7
18	4	11	36	14	27	5	20	17
18	6	6	8	10	2	46	99	6
19	8	3	1	1	6	2	10	* 1

# APPOINTMENTS, DISCHARGES, RESIGNATIONS, DISMISSALS.

*October 4, 1894, to October 3, 1895.*

## APPOINTED ENSIGNS JULY 1, 1895.

Naval Cadet Powelson, Wilfrid Van Nest.....	Class of 1893
Naval Cadet Montgomery, William Slack.....	Class of 1893
Naval Cadet Clark, Frank Hodges, jr.....	Class of 1893
Naval Cadet Ward, Henry Heber.....	Class of 1893
Naval Cadet Bisset, Eugene Leo.....	Class of 1893
Naval Cadet Lang, Charles Jonas.....	Class of 1893
Naval Cadet Campbell, Edward Hale.....	Class of 1893
Naval Cadet Crosley, Walter Selwyn.....	Class of 1893
Naval Cadet Gise, William Kern.....	Class of 1893
Naval Cadet Wilson, Thomas Sheldon.....	Class of 1893
Naval Cadet Pearson, Henry Allen.....	Class of 1893
Naval Cadet Jackson, Orton Porter.....	Class of 1893
Naval Cadet Chadwick, Frank Laird.....	Class of 1893
Naval Cadet Doddridge, John Schon.....	Class of 1893
Naval Cadet Olmsted, Percy Napier.....	Class of 1893
Naval Cadet Fewel, Christopher Catron.....	Class of 1893
Naval Cadet Upham, Frank Brooks.....	Class of 1893
Naval Cadet Sticht, John Low.....	Class of 1893
Naval Cadet Douglas, Richard Spencer.....	Class of 1893
Naval Cadet McKethan, Alfred Augustus.....	Class of 1893
Naval Cadet Pratt, Alfred Allen.....	Class of 1893

## APPOINTED ASSISTANT ENGINEERS JULY 1, 1895.

Naval Cadet Peugnet, Maurice Berthold.....	Class of 1893
Naval Cadet Price, Henry Bertrand.....	Class of 1893
Naval Cadet Trench, Martin Edward.....	Class of 1893
Naval Cadet Read, Frank De Witt.....	Class of 1893
Naval Cadet Brady, John Richard.....	Class of 1893
Naval Cadet Cook, Allen Merriam.....	Class of 1893
Naval Cadet Pollock, Emmett Riddle.....	Class of 1893
Naval Cadet Procter, André Morton.....	Class of 1893

## APPOINTED ASSISTANT NAVAL CONSTRUCTOR JULY 1, 1895.

Naval Cadet Nutting, Daniel Chaplin, jr.....	Class of 1893
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## APPOINTED SECOND LIEUTENANT U. S. MARINE CORPS, JULY 1, 1895.

Naval Cadet Magill, Louis John.....	Class of 1893
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## HONORABLY DISCHARGED JUNE 30, 1895.

Naval Cadet Elder, Edwin Avery.....	Class of 1893
Naval Cadet Perry, Joseph Albert *.....	Class of 1893
Naval Cadet Berry, David Mark *.....	Class of 1893
Naval Cadet Powell, William Glasgow.....	Class of 1893

\*At own request.



Naval Cadet Ryan, John Paul Joseph.....	Class of 1893
Naval Cadet Holsinger, Gerald Long.....	Class of 1893
Naval Cadet Morris, John Ramsay.....	Class of 1893
Naval Cadet Wells, Chester.....	Class of 1893
Naval Cadet Potter, James Boyd.....	Class of 1893

RESIGNED.

Naval Cadet Bynum, Dixon H., fourth class.....	Oct. 29, 1894
Naval Cadet Deane, Russell A., second class.....	Dec. 18, 1894
Naval Cadet Shay, Louis B., fourth class.....	Dec. 20, 1894
Naval Cadet Webber, Charles H., fourth class.....	Dec. 26, 1894
Naval Cadet Jeffries, James G., fourth class.....	Dec. 28, 1894
Naval Cadet Eisbein, Arthur, fourth class.....	Jan. 4, 1895
Naval Cadet Volkmar, Walter S., second class.....	Jan. 5, 1895
Naval Cadet Caffery, John M., fourth class.....	Jan. 7, 1895
Naval Cadet Mayo, Henry W., third class.....	Jan. 12, 1895
Naval Cadet Pattison, Dilly N., third class.....	Jan. 14, 1895
Naval Cadet Small, Jesse M., fourth class.....	Jan. 17, 1895
Naval Cadet Reifsnider, John, fourth class.....	Jan. 23, 1895
Naval Cadet Ball, William G., fourth class.....	Jan. 24, 1895
Naval Cadet Stogsdill, James E., fourth class.....	Jan. 24, 1895
Naval Cadet Field, Francis L., fourth class.....	Jan. 29, 1895
Naval Cadet Blandy, Edwin C., second class.....	Feb. 4, 1895
Naval Cadet Morris, Bennie, fourth class.....	Feb. 5, 1895
Naval Cadet Cooke, Robert P. P., second class.....	Feb. 14, 1895
Naval Cadet McConnell, Richard G., second class.....	Feb. 14, 1895
Naval Cadet Bonnaffon, Sylvester, fourth class.....	Feb. 19, 1895
Naval Cadet McMullen, Stanley H., third class.....	Feb. 26, 1895
Naval Cadet Shelton, Nathan J., third class.....	Feb. 26, 1895
Naval Cadet Sykes, Eugene O., jr., third class.....	Feb. 26, 1895
Naval Cadet Ward, Joshua T., third class.....	Feb. 26, 1895
Naval Cadet Bissell, Henry H., fourth class.....	Feb. 26, 1895
Naval Cadet Durham, Raymond E., fourth class.....	Feb. 26, 1895
Naval Cadet Fox, Linn H., fourth class.....	Feb. 26, 1895
Naval Cadet McCarty, Sterling H., fourth class.....	Feb. 26, 1895
Naval Cadet Moore, William A., fourth class.....	Feb. 26, 1895
Naval Cadet Sayles, William R., jr., fourth class.....	Feb. 26, 1895
Naval Cadet Tottenham, John W., fourth class.....	Feb. 26, 1895
Naval Cadet Turner, Laurin H., fourth class.....	Feb. 26, 1895
Naval Cadet Wilcox, Luther T., fourth class.....	Feb. 26, 1895
Naval Cadet Wells, Horace T., third class.....	Feb. 26, 1895
Naval Cadet Dennett, Stanley P., first class.....	Feb. 27, 1895
Naval Cadet Izard, Walter B., first class.....	Feb. 28, 1895
Naval Cadet Gleason, Henry Miller, fourth class.....	April 24, 1895
Naval Cadet Carver, Marvin, class of 1893.....	June 14, 1895
Naval Cadet Middleton, George I., second class.....	June 14, 1895
Naval Cadet Doak, Henry M., second class.....	June 26, 1895
Naval Cadet Hauenstein, George J., second class.....	June 26, 1895
Naval Cadet Shockley, Augustus W., fourth class.....	June 26, 1895
Naval Cadet Sayers, Joseph D., jr., first class.....	June 30, 1895
Naval Cadet Vestal, Samuel C., first class.....	June 30, 1895
Naval Cadet Herndon, Henry R., second class.....	Oct. 1, 1895
Naval Cadet Jones, Junius H., first class.....	Oct. 3, 1895

WITHDRAWN.

Naval Cadet Takasaki, Motohiko, first class.....	Mar. 13, 1895
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DROPPED.

Naval Cadet Mann, George H., first class.....	Mar. 16, 1895
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## MERIT ROLLS FOR 1894-'95.

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*Merit rolls, made out annually for each class, show the proficiency of the cadets in each branch of study. The numbers given in the table, page 91, showing the relative weight of the different branches, are used as coefficients; the final mark in each branch (on a scale of 4) being multiplied by the number assigned to that branch. The sum of the products, after adding the multiple for discipline, is the final mark of the cadet for the year.*

*In the case of cadets that take an advanced course in any branch, the final mark in that branch is determined by adding to the final mark received in the required course one-fifth of the amount by which the final mark in the advanced course exceeds 2.50.*

*In the graduating merit roll, the final standing for the course is determined by the sum of the yearly marks.*

*"Cadets who attain 85 per cent of the multiple in any year shall be distinguished by a star affixed to their names on the merit rolls." (Regulations U. S. Naval Academy, ¶ 191.)*

*The diplomas of cadets whose final marks on the graduating merit roll are not less than 85 per cent of the maximum read "passed with distinction;" those whose final marks are between 74 per cent and 85 per cent of the maximum read "passed with credit;" and those whose final marks are between 62½ per cent and 74 per cent of the maximum read "passed."*

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*P Physically disqualified for the naval service.*

*\* Received 85 per cent of the multiple.*

*† Found deficient, allowed a reëxamination, passed, and continued with class.*

*‡ At own request.*

*§ Found deficient, and recommended to be dropped.*

*|| Resigned June 14, 1895.*

*¶ Resigned June 30, 1895.*

*a Absent from examination.*

*e Selected for engineer division.*

*w Found deficient, warned.*

Merit roll of the Graduating Class of Naval Cadets—Line Division—33 members—in connection of the 1898-99 year.

*Merit roll of the Graduating Class of Naval Cadets—Line Division—35 members—at conclusion of Six Years' Course, June, 1895—Continued.*

Order of merit.	NAME.	Semiannual construction.	Ordnance and gunnery.	Navigation and surveying.	Steam machinery, engines, and boilers.	International law.	French, Spanish, and German.	Cruise reports.	Navigation notes, books, journals, and station bills.	Aggregate for final examination.	Aggregate for four years.	Final aggregate.	ASSIGNMENT.
		56	44	44	20	24	28	16	8	240	760	1,000	
22	Maxima .....												
23	Frank Brooks Upham .....	37.94	28.71	33.66	12.50	17.34	21.42	14.08	6.26	171.91	567.87	739.78	Ensign.
24	John Low Sticht .....	41.16	27.61	29.81	12.70	18.06	20.37	13.20	6.80	169.71	561.93	731.64	Ensign.
25	Richard Spencer Douglas .....	36.40	26.18	28.71	12.55	16.50	20.03	13.92	5.74	160.03	569.02	729.05	Ensign.
26	Alfred Augustus McKethan .....	41.16	33.99	28.49	12.50	19.26	18.48	13.92	5.86	173.66	550.52	724.18	Ensign.
27	Alfred Allen Pratt .....	43.96	31.57	37.73	13.20	15.06	20.93	10.92	5.74	179.11	541.48	720.59	Ensign.
28	William Glasgow Powell .....	32.20	23.98	23.87	11.05	16.50	22.40	12.96	6.74	149.70	569.83	719.53	Honorably discharged.
29	Emmett Riddle Pollock .....	38.22	28.16	30.36	12.95	16.38	24.60	13.28	5.74	169.69	547.30	716.99	Assistant Engineer.
30	John Paul Joseph Ryan .....	36.40	25.52	27.61	7.70	16.20	21.14	13.84	6.74	155.15	561.25	716.40	Honorably discharged.
31	Gerald Long Holsinger .....	40.60	29.04	27.17	10.55	18.06	21.84	12.64	5.14	165.04	550.99	716.03	Honorably discharged.
32	John Ramsay Morris .....	39.20	28.38	25.96	7.40	15.42	21.63	13.92	5.34	157.25	558.35	715.60	Honorably discharged.
33	Chester Wells .....	36.40	26.73	26.95	10.85	16.02	19.18	12.56	6.26	154.95	555.53	710.48	Honorably discharged.
34	James Boyd Potter .....	38.36	28.38	30.91	10.35	15.72	20.23	12.40	6.26	162.61	543.79	706.40	Honorably discharged.
35	André Morton Proctor .....	44.66	31.02	30.47	14.25	15.90	21.42	11.44	6.14	175.30	516.99	692.29	Assistant Engineer.
36	Marvin Carver .....	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	592.88	.....	



*Merit roll of the Graduating Class of Naval Cadets—Engineer Division—6 members—at conclusion of Six Years' Course, June, 1895.*

Order of merit.	NAME.	ASSIGNMENT.									
		Naval construction.	Marine engines.	Designing machinery.	Boilers.	French, Spanish, and German.	Cruise reports.	Journals and station bills.	Aggregate for final examination.	Aggregate for four years.	Final aggregate.
	Maxima.....	32	72	36	40	28	16	16	240	760	1,000
1	Maurice Berthold Peugeot .....	23.92	62.82	25.38	32.00	27.86	14.08	14.80	200.86	612.42	813.28
2	Henry Bertrand Price.....	27.04	54.54	27.45	29.50	23.73	14.08	16.00	192.34	589.38	781.72
3	Martin Edward Trench .....	24.96	59.22	30.51	30.80	19.95	14.16	14.92	194.52	580.03	780.55
4	Frank De Witt Read.....	23.44	60.84	27.18	33.40	21.84	14.16	16.00	196.86	560.22	757.08
5	John Richard Brady .....	25.12	52.56	30.06	25.80	20.51	12.52	13.44	180.01	565.22	745.23
	Daniel Chaplin Nutting, jr.....	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	661.53	

NOTE.—Naval Cadet Daniel Chaplin Nutting, jr., appointed assistant constructor, did not appear at the final graduating examination.

*Merit roll for the four years ending June, 1894, of the Naval Cadets of the Class appointed in 1890, now performing required service afloat—Line Division—34 members.*

Order of general merit for four years.	NAME.	Aggregate for first year.	Aggregate for second year.	Aggregate for third year.	Aggregate for fourth year.	General aggregate for four years.
	Maxima.....	76	152	228	304	760
* 1	William P. Robert.....	69.78	141.49	204.90	277.36	693.5
* 2	Daniel H. Cox.....	68.79	138.06	202.34	262.73	671.9
* 3	Irvin Van G. Gillis.....	66.37	132.75	198.08	273.45	670.6
* 4	Thomas G. Roberts.....	70.31	138.61	196.60	246.79	652.3
* 5	David F. Sellers.....	65.04	131.28	197.58	252.95	646.8
* 6	Lawrence S. Adams.....	59.82	129.59	194.96	262.10	646.4
7	Raymond Stone.....	66.92	132.41	184.83	256.53	640.6
8	John T. Tompkins.....	67.89	132.17	189.90	250.45	640.4
9	Ridley McLean.....	67.23	129.62	192.29	251.26	640.4
10	Charles Webster.....	65.20	125.67	186.74	261.99	639.6
11	Provoost Babin.....	64.73	130.86	185.72	244.68	625.9
12	L. Burton Jones.....	64.37	129.39	167.26	246.48	607.5
13	Simon P. Fullinwider.....	62.72	127.42	179.17	235.18	604.4
14	Stephen V. Graham.....	63.12	123.59	169.13	237.22	593.0
15	Ernest L. Bennett.....	63.66	124.29	171.16	231.43	590.5
16	John McC. Luby.....	60.04	117.41	171.73	235.83	585.0
17	Fritz L. Sandoz.....	65.48	122.18	169.39	227.20	584.2
18	Gilbert S. Galbraith.....	56.09	121.30	170.14	233.93	581.4
19	Melville J. Shaw.....	66.87	125.11	162.19	223.08	577.2
20	Arthur G. Kavanagh.....	62.27	118.61	173.38	217.50	571.7
21	Charles S. Bookwalter.....	57.60	113.80	169.74	229.43	570.5
22	William P. Scott.....	57.59	113.36	160.72	238.75	570.4
23	Carlton F. Snow.....	55.44	112.31	167.71	234.72	570.1
24	Robert H. Osborn.....	59.01	118.95	165.90	225.15	569.0
25	Roscoe Spear.....	61.07	119.03	163.34	220.74	564.1
26	Walter J. Manion.....	66.12	116.27	164.18	217.39	563.9
27	Robert W. McNeely.....	59.65	115.38	167.23	220.35	562.6
28	Walter S. Turpin.....	54.68	112.58	163.24	230.86	561.3
29	Roscoe C. Bulmer.....	58.09	115.00	160.52	227.29	560.9
30	William S. Whitted.....	57.31	113.02	166.58	223.85	560.7
31	George L. P. Stone.....	56.54	113.20	163.55	224.19	557.5
32	George E. Gelm.....	53.88	113.06	163.39	221.28	551.6
33	Clarence England.....	58.85	106.89	154.63	218.79	539.1

*Merit roll for the four years ending June, 1894, of the Naval Cadets of the Class appointed in 1890, now performing required service afloat—Engineer Division—13 members.*

Order of general merit for four years.	NAME.	Aggregate for first year.	Aggregate for second year.	Aggregate for third year.	Aggregate for fourth year.	General aggregate for four years.
	Maxima.....	76	152	228	304	760
1	John M. Hudgins.....	61.95	128.30	186.23	251.42	627.90
2	Boling K. McMorris.....	61.06	121.17	174.23	244.80	601.26
3	Alfred W. Hinds.....	61.50	123.08	171.57	231.99	588.14
4	Roscoe C. Moody.....	58.60	118.52	172.62	238.28	588.02
5	Ignatius T. Cooper.....	62.31	119.44	166.80	232.10	580.65
6	Henry T. Baker.....	57.50	122.57	168.53	231.25	579.85
7	Ralph H. Chappell.....	56.40	115.43	171.26	236.17	579.26
8	Leland F. James.....	61.15	119.63	162.45	235.48	578.71
9	Frank Lyon.....	56.45	111.45	166.43	228.81	563.14
10	Joseph M. Reeves.....	55.29	118.73	170.74	217.17	561.93
11	Hutch I. Cone.....	59.13	115.75	161.42	222.91	559.21
12	Emory Winship.....	58.84	114.78	159.00	220.79	553.41
13	Edwin H. De Lany.....	53.96	99.22	150.33	208.06	511.57

*Merit roll for the four years ending June, 1895, of the Naval Cadets of the Class appointed in 1891, now performing required service afloat—Line Division—29 members.*

Order of general merit for four years.	NAME.	Aggregate for first year.	Aggregate for second year.	Aggregate for third year.	Aggregate for fourth year.	General aggre- gate for four years.
	Maxima.....	76	152	228	304	760
*1	Stuart F. Smith.....	71.49	139.99	206.20	268.26	685.94
*2	William G. Groesbeck.....	70.34	139.58	195.19	252.47	657.58
3	Frank H. Brunby.....	64.76	130.12	188.17	255.33	638.38
4	Frank P. Baldwin.....	60.71	127.49	187.52	256.96	632.68
5	William C. Davidson.....	63.49	125.24	179.35	255.62	623.70
6	Harris Laning.....	61.28	119.81	183.45	250.90	615.44
7	Philip M. Bannon.....	63.96	128.01	182.16	230.28	604.41
8	Arthur T. Chester.....	57.38	125.67	180.98	237.05	601.08
9	John R. Monaghan.....	61.30	118.33	175.74	242.41	597.78
10	Henry V. Butler, jr.....	59.72	116.63	178.14	242.08	596.57
11	James E. Walker.....	59.57	118.72	170.19	240.48	588.96
12	William R. Cushman.....	58.13	110.66	181.43	238.40	588.62
13	David W. Todd.....	60.70	117.21	169.79	237.08	584.78
14	James J. Raby.....	58.42	119.47	172.39	233.60	583.88
¶15	Samuel C. Vestal.....	63.15	114.47	176.76	229.31	583.69
16	William H. Standley.....	56.55	114.67	175.21	234.85	581.28
17	Walter R. Gherardi.....	64.17	117.54	172.83	225.97	580.51
18	John V. Klemann.....	55.85	115.43	166.34	237.59	575.21
19	Kenneth M. Bennett.....	60.02	113.11	173.28	226.88	573.29
20	Michael J. McCormack.....	63.78	112.65	161.79	229.65	567.87
21	Worth Bagley.....	65.72	121.77	162.20	216.31	566.00
22	Albion J. Wadhams.....	54.73	111.75	174.39	224.88	565.75
23	Cassius B. Barnes.....	59.07	112.49	160.73	232.55	564.84
24	Edward H. Watson.....	64.74	113.49	164.18	219.80	562.21
25	Joseph C. Breckinridge.....	64.78	117.56	162.86	216.21	561.41
26	Orlo S. Knepper.....	56.32	111.91	165.64	226.84	560.71
27	Newt H. Hall.....	57.61	109.28	167.04	224.87	558.80
28	Rufus Z. Johnston, jr.....	53.19	107.08	164.32	232.79	557.38
¶29	Joseph D. Sayers, jr.....	61.05	109.73	166.32	217.74	554.84



*Merit roll for the four years ending June, 1895, of the Naval Cadets of the Class appointed in 1891, now performing required service afloat—Engineer Division—12 members.*

Order of general merit for four years.	NAME.	Aggregate for first year.	Aggregate for second year.	Aggregate for third year.	Aggregate for fourth year.	General aggregate for four years.
	Maxima .....	76	152	228	304	760
1	Thomas M. Dick.....	63.50	128.26	185.88	262.09	639.73
2	Charles K. Mallory .....	55.21	118.78	184.15	269.71	627.85
3	Newton Mansfield.....	59.42	123.75	179.84	248.16	611.17
4	Daniel M. Garrison.....	53.93	113.89	177.48	249.56	594.86
5	Franklin D. Karns .....	56.23	116.85	176.57	243.20	592.85
6	James P. Morton .....	62.03	121.95	165.61	233.35	582.94
7	Frederick K. Freeman.....	53.73	107.77	166.14	243.23	570.87
8	Charles H. Walker .....	54.47	109.85	167.06	236.60	567.98
9	John F. Marshall, jr.....	58.92	112.48	156.96	222.71	551.07
10	Darwin R. Merritt.....	52.07	105.77	157.55	224.32	539.71
11	Edward H. Dunn.....	56.90	108.35	157.89	214.84	537.98
12	Ernest F. Eckhardt .....	53.55	104.24	161.11	209.95	528.85

*Merit roll of the Naval Cadets of the First Class—Line Division—29 members—Annual Examination, June, 1895.*

Order of annual merit.	NAME.	Aggregate.									
		Seamanship, naval construction, and naval tactics.	Seamanship, practice cruise.	Ordnance and gunnery.	Navigation and surveying.	Navigation, practice cruise.	Least squares and applied mechanics.	Physics.	International law.	Physiology and hygiene.	Efficiency.
		52	8	60	48	8	20	20	16	8	32
	Maxima.....										304
*1	Stuart F. Smith.....	44.07	7.06	53.25	40.92	7.32	17.95	17.65	14.36	6.64	28.40
2	Frank P. Baldwin.....	42.64	6.46	52.65	39.00	7.50	14.65	16.90	13.52	6.60	28.96
3	William C. Davidson.....	44.85	6.38	51.15	36.36	7.60	14.30	16.40	14.00	6.90	30.32
4	Frank H. Brumby.....	41.73	6.04	51.90	41.88	7.66	15.05	15.35	14.00	6.44	25.04
5	William G. Groesbeck.....	42.38	6.28	51.15	40.08	7.36	15.45	16.75	13.32	5.70	26.48
6	Harris Laning.....	42.64	6.82	48.75	37.44	7.18	13.90	15.95	13.68	6.62	26.96
7	John R. Monaghan.....	38.74	5.84	47.85	36.48	7.22	15.20	15.50	14.12	6.10	25.84
8	Henry V. Butler, jr.....	41.98	6.70	48.30	34.32	7.00	14.35	16.35	10.64	6.30	27.44
9	James E. Walker.....	40.82	6.40	48.00	37.32	7.12	14.45	16.15	12.24	5.98	26.40
10	William R. Cushman.....	40.04	6.58	46.50	36.48	6.98	15.60	14.40	12.04	6.66	26.72
11	John V. Klenann.....	40.30	5.60	46.95	36.00	6.98	14.55	14.95	13.28	6.58	22.96
12	David W. Todd.....	41.34	6.36	45.90	35.04	7.12	12.50	14.10	12.80	6.72	26.64
13	Arthur T. Chester.....	40.95	6.42	46.80	33.96	7.00	14.00	14.50	11.48	6.02	26.96
14	William H. Standley.....	38.74	6.48	45.30	32.76	6.98	13.40	14.65	12.96	6.70	27.36
15	James J. Raby.....	37.31	6.44	43.80	35.52	7.08	13.80	14.75	11.84	6.10	26.24
16	Rufus Z. Johnston, jr.....	38.87	6.24	47.85	35.16	6.82	12.50	14.55	11.64	6.28	26.24
17	Cassius B. Barnes.....	38.09	6.04	46.65	35.52	6.66	14.60	15.15	12.44	5.64	25.36
18	Philip M. Baunon.....	39.65	6.80	42.45	32.64	6.78	12.50	14.50	11.64	5.96	28.00
19	Michael J. McCormack.....	37.31	6.08	43.65	30.84	6.94	12.55	13.20	13.76	6.92	26.96
*20	Samuel C. Vostal.....	38.87	5.60	44.25	33.12	6.46	14.00	14.25	13.84	5.48	25.60
21	Kenneth M. Bennett.....	37.05	6.40	44.40	32.76	6.70	13.05	14.10	12.36	6.46	25.84
22	Orlo S. Knepper.....	37.70	5.16	45.15	33.96	6.90	13.10	14.45	11.44	6.34	24.96

23	Walter R. Gherardi.....	38.74	6.22	43.20	32.64	6.82	11.55	13.30	12.12	6.29	26.56	28.56	225.97
24	Albion J. Wadhams.....	37.96	6.08	44.55	32.88	7.04	13.25	14.50	10.76	6.50	26.48	24.88	224.88
25	Newt H. Hall.....	34.97	6.02	41.85	32.28	7.04	13.85	14.10	12.52	5.84	26.24	30.16	224.87
26	Edward H. Watson.....	36.92	6.10	43.05	31.80	6.42	12.65	12.90	13.20	5.96	25.92	24.88	219.80
†27	Joseph D. Sayers, jr.....	36.14	5.30	43.50	32.16	6.66	12.75	13.65	13.88	6.66	25.12	21.92	217.74
28	Worth Bagley.....	35.36	6.14	40.05	32.28	7.34	12.50	13.20	11.88	6.60	26.72	24.24	216.31
29	Joseph C. Breckinridge.....	34.32	6.06	39.90	30.96	7.44	13.25	13.10	14.76	6.10	25.84	24.48	216.21

*Merit roll of the Naval Cadets of the First Class—Engineer Division—12 members—Annual Examination, June, 1895.*

Order of annual merit.	NAME.	Naval construction.	Designing machinery.	Marine engines.	Boilers.	Summer practical work in steam engineering.	Least squares and applied mechanics.	Physics.	Physiology and hygiene.	Efficiency.	Conduct.	Aggregate.
	Maxima.....	32	48	40	32	20	40	20	8	32	32	304
*1	Charles K. Mallory ....	27.84	42.48	35.50	28.72	19.00	34.40	17.35	6.10	28.64	29.68	269.71
*2	Thomas M. Dick .....	26.32	42.48	32.70	28.16	19.50	32.50	15.25	6.54	28.64	30.40	262.09
3	Daniel M. Garrison....	25.28	39.48	32.00	27.60	19.00	30.00	15.60	6.84	28.16	25.60	249.56
4	Newton Mansfield....	25.84	38.64	29.90	27.60	19.50	29.40	15.10	6.74	28.88	26.56	248.16
5	Frederick N. Freeman.	22.72	37.68	31.70	26.88	18.75	28.70	14.30	6.66	27.60	28.24	243.23
6	Franklin D. Karns....	23.28	35.28	30.00	25.60	19.00	29.90	14.70	7.44	28.48	26.52	243.20
7	Charles H. Walker ....	23.20	37.20	28.00	24.96	19.50	26.50	13.70	6.98	26.88	29.68	236.60
8	James P. Morton .....	23.52	34.68	30.90	24.08	18.75	30.70	14.60	5.56	26.96	23.60	233.35
9	Darwin R. Merritt ....	21.60	34.32	27.20	23.92	18.90	27.50	13.60	6.16	26.56	24.56	224.32
10	John F. Marshall, jr...	22.48	33.00	26.30	25.12	18.25	26.80	13.30	5.70	26.24	25.52	222.71
11	Edward H. Dunn.....	21.76	31.92	27.80	22.08	18.25	26.20	13.25	6.22	24.80	22.56	214.84
12	Ernest F. Eckhardt ...	22.40	30.12	25.70	21.04	18.25	29.20	13.20	6.04	23.92	20.08	209.95

*Merit roll of the Naval Cadets of the Second Class—42 members—Annual Examination, June, 1895.*

Order of annual merit.	NAME.	Seamanship.	Astronomy.	Steam machinery, marine engines, and boilers.	Summer practical work in steam engineering.	Calculus and me- chanics.	Physics and chem- istry.	French.	Mechanical draw- ing.	Efficiency.	Conduct.	Aggregate.
		12	12	32	12	48	40	12	12	24	24	228
* 1	Richard H. Robinson...	9.72	10.77	28.48	10.20	44.28	36.50	10.32	10.32	20.34	22.20	203.13
2	Jonas H. Holden.....	10.65	10.02	27.44	10.80	36.12	31.00	9.27	11.19	21.12	23.22	190.83
* 3	Charles L. Leiper.....	9.87	9.87	26.40	9.90	39.00	34.10	10.44	10.47	19.62	20.82	190.49
4	Thomas T. Craven.....	10.65	9.72	24.96	10.44	40.20	30.10	9.39	10.38	20.34	21.12	187.30
5	Ralph E. Walker.....	9.57	10.53	25.36	9.45	41.28	31.70	10.32	9.90	19.38	19.44	186.93
6	Charles L. Poor.....	9.75	10.23	25.84	9.45	37.44	30.70	11.01	9.24	19.74	21.42	184.82
* 7	Gatewood S. Lincoln...	9.81	9.90	24.88	9.90	38.52	32.70	9.60	8.13	19.68	20.76	183.88
8	Andrew E. Kalbach....	8.61	9.99	23.04	10.05	39.12	31.90	9.51	9.18	19.98	21.84	183.22
9	Ralph Earle.....	9.63	9.87	25.84	9.24	35.40	30.50	9.42	10.38	19.26	21.78	181.32
10	Daniel W. Wurtsbaugh	9.54	9.75	21.84	10.50	38.04	30.40	8.88	9.00	19.74	22.44	180.13
11	Charles M. Tozer.....	9.48	10.17	23.84	9.75	36.60	29.90	8.83	9.09	19.62	21.06	178.39
* 12	Henry O. Bisset.....	8.40	9.93	21.68	9.30	36.96	31.60	9.93	8.37	19.14	21.78	177.09
13	Duncan M. Wood.....	9.75	9.45	24.56	9.09	34.68	30.10	8.55	10.53	19.02	21.12	176.85
* 14	Edward T. Fitzgerald..	9.66	9.63	24.96	10.05	33.48	29.20	8.64	9.72	19.50	21.42	176.26
15	Ivan C. Wettengel.....	9.81	9.99	23.92	9.75	34.44	30.20	9.87	8.85	19.08	20.34	176.25
16	Henry S. Kimball.....	9.42	9.33	22.48	10.50	31.56	29.20	9.54	9.63	20.94	20.94	173.54
17	Thomas A. Kearney...	9.18	9.33	22.88	10.35	30.84	29.20	9.03	9.27	20.16	22.38	172.62
18	Wat T. Cluverius, jr...	8.67	9.60	22.96	9.39	32.28	30.50	9.42	8.04	19.02	20.40	170.28
* 19	Mark St. C. Ellis.....	8.58	9.24	22.64	9.99	32.76	28.50	9.33	9.21	18.72	20.82	169.79
* 20	Albert W. Marshall...	8.52	9.33	22.48	9.45	32.40	29.50	8.19	8.85	19.56	21.48	169.76
* 21	George I. Middleton...	8.40	9.27	22.40	10.14	30.96	28.30	10.08	9.18	18.78	21.12	168.63
22	Leigh C. Palmer.....	9.00	8.82	23.28	10.05	32.16	27.60	9.51	9.30	19.86	18.96	168.54
23	Frank E. Ridgely.....	8.46	9.24	22.80	9.90	32.16	29.00	9.72	8.70	19.32	18.66	167.96
24	Arthur MacArthur, jr.	8.37	9.39	21.36	9.75	32.76	29.20	8.64	9.42	19.08	19.86	167.83
25	Dudley W. Knox.....	8.64	8.88	20.80	9.54	31.08	28.50	8.49	10.44	19.20	21.90	167.47
* 26	Charles P. Burt.....	9.33	9.21	21.92	9.99	30.48	28.40	8.97	9.03	19.14	20.46	166.93
27	Earl P. Jessop.....	9.21	9.03	21.12	9.84	30.96	27.70	8.70	8.43	19.20	21.60	165.79
28	Charles E. Gilpin.....	8.61	7.83	20.80	9.84	30.96	25.20	11.28	10.05	19.86	21.30	165.73
* 29	Kenneth G. Castleman.	8.28	8.88	20.24	9.90	30.24	30.60	9.30	9.24	20.10	16.50	163.28
30	Edward McCauley, jr..	8.43	8.88	20.96	9.21	30.60	26.80	8.94	8.79	19.80	20.76	163.17
* 31	William L. Littlefield..	8.25	8.13	20.80	10.65	31.20	27.70	8.67	10.14	19.62	16.74	161.90
32	Henry C. Mustin.....	8.97	8.76	21.52	9.09	30.24	27.50	8.58	11.31	18.96	16.26	161.19
* 33	Pope Washington.....	7.98	8.43	20.32	9.24	30.72	25.30	8.25	8.79	18.96	20.22	158.21
34	Rowland I. Curtin.....	8.37	8.37	21.28	9.00	31.80	27.00	7.89	8.73	18.24	17.34	158.02
* 35	Arthur Crenshaw.....	7.89	7.71	20.24	9.45	30.24	25.10	8.04	7.95	19.62	21.42	157.66
* 36	James B. Henry, jr....	8.22	8.46	20.32	9.39	30.00	26.90	8.07	8.40	18.66	17.82	156.24
Pa	Junius H. Jones.....	(a)	(a)	(a)	9.60	(a)	(a)	(a)	9.24	19.26	22.80	.....
f	John H. Roys.....	8.04	8.52	20.48	9.39	29.40	25.50	8.97	8.49	19.44	18.30	156.53
\$	George J. Hauenstein..	8.22	8.07	20.08	9.30	29.16	24.70	8.55	8.64	18.60	21.18	156.50
\$	Henry M. Doak, jr....	7.27	8.52	19.36	9.24	29.16	25.40	8.07	7.74	18.78	19.38	153.42
et	George B. Rice.....	7.83	8.04	20.40	9.54	30.48	24.70	8.40	7.89	18.90	17.16	153.34
f	Amon Bronson, jr.....	8.04	8.07	19.76	8.19	32.64	26.50	8.40	8.04	17.70	14.82	152.16



*Merit roll of the Naval Cadets of the Third Class—60 members—Annual Examination, June, 1895.*

Order of annual merit.	NAME.	Trigonometry, analytical and descriptive geometry.	Physics and chemistry.	English and law.	French, Spanish, and German.	Mechanical drawing.	Efficiency.	Conduct.	Aggregate.
	Maxima .....	40	20	16	20	24	16	16	152
* 1	William G. Du Bose.....	36.40	18.10	14.96	19.20	20.46	13.96	15.92	139.00
* 2	Ernest F. Eggert.....	34.60	18.60	13.44	17.65	23.34	12.48	14.16	134.27
* 3	Harry E. Yarnell.....	32.20	16.65	14.36	17.35	22.20	13.08	15.44	131.28
* 4	Fletcher L. Sheffield.....	34.10	17.10	13.80	17.50	20.22	13.36	15.12	131.20
* 5	Joseph W. Powell.....	33.10	16.40	13.48	16.30	21.84	13.56	15.48	130.16
6	Needham L. Jones.....	30.40	16.50	14.40	18.60	19.92	12.76	15.08	127.66
7	Harlan P. Perrill.....	33.90	17.20	13.64	16.05	17.46	13.12	15.28	126.65
8	David E. Theleen.....	31.60	16.50	13.60	14.45	22.63	12.84	14.84	126.51
9	Gilbert Chase.....	30.50	16.80	12.56	16.75	22.68	12.52	13.80	125.61
10	Alfred W. Pressey.....	31.10	17.55	12.72	17.40	20.40	12.72	13.60	125.49
11	Luther M. Overstreet.....	31.70	16.35	12.12	13.00	23.46	13.00	15.00	124.63
12	Victor S. Houston.....	27.90	14.00	12.32	19.70	23.04	12.92	13.08	122.96
13	Cyrus R. Miller.....	29.40	18.35	13.16	17.20	19.14	12.52	12.56	122.33
14	Arthur J. Hepburn.....	30.70	17.20	13.80	17.30	18.06	13.16	11.64	121.86
15	William H. Reynolds.....	28.90	15.05	12.64	16.05	21.48	12.88	14.08	121.08
16	Joseph W. Graeme.....	27.10	16.30	14.08	16.55	19.80	12.84	14.32	120.99
17	Orin G. Murfin.....	30.50	14.95	12.76	13.90	19.86	12.88	15.28	120.13
18	William R. White.....	28.20	16.15	13.04	16.55	22.26	12.16	11.40	119.76
19	David F. Boyd, jr.....	30.80	15.75	12.68	15.80	20.70	12.92	10.84	119.49
20	Louis C. Richardson.....	31.00	14.95	12.48	13.40	19.08	12.68	15.40	118.99
21	Frederic R. Holman.....	30.70	14.95	12.72	15.65	18.24	12.48	13.92	118.66
22	Leonard R. Sargent.....	29.30	15.65	14.00	17.00	16.44	12.20	13.68	118.27
23	Clifton C. Roehle.....	27.30	15.70	11.80	13.90	21.18	13.08	14.92	117.88
24	Daniel S. Mahony.....	31.60	16.00	14.24	16.55	15.78	12.16	11.40	117.73
25	Edward T. Hoopes.....	32.50	15.30	10.92	14.45	20.88	12.12	10.28	116.45
26	Thomas C. Hart.....	27.80	15.65	12.28	13.90	19.62	12.80	13.68	115.73
P27	Henry R. Herndon.....	29.00	14.60	12.96	16.15	16.32	12.64	13.68	115.35
28	Henry L. Collins.....	31.70	16.40	11.24	14.10	17.16	12.56	12.00	115.16
29	Walton R. Sexton.....	26.70	15.75	11.96	13.95	19.32	13.00	13.88	114.56
30	Albert H. McCarthy.....	28.70	14.55	12.68	13.40	16.98	12.92	15.32	114.55
31	Austin Kautz.....	27.90	14.30	12.24	15.90	16.44	12.64	14.80	114.22
32	Hilary Williams.....	27.40	14.45	12.20	15.30	18.24	12.72	13.64	113.95
33	Henry N. Jenson.....	27.70	13.40	11.76	13.65	19.62	12.48	13.08	113.69
34	Sheldon W. Anding.....	25.80	14.40	11.72	13.40	19.80	12.48	15.20	112.80
34	Arthur St. C. Smith, jr.....	27.80	14.95	12.68	13.35	16.50	12.72	14.80	112.80
36	William C. Asserson.....	26.00	15.25	10.32	13.55	21.36	12.40	13.64	112.52
37	Robert C. Bagby.....	26.60	14.40	12.24	16.60	15.42	12.44	14.60	112.30
38	George Webber.....	26.30	14.55	11.96	14.05	18.48	12.56	14.12	112.02
39	Willis McDowell.....	27.80	15.90	12.20	13.60	15.84	12.72	13.92	111.98
40	Robert W. Henderson.....	27.60	15.20	11.80	14.05	17.82	12.36	13.00	111.83
41	Andrew T. Graham.....	26.00	15.30	11.72	13.15	18.06	12.36	14.72	111.31
42	Alfred C. Owen.....	27.60	14.25	12.12	15.35	17.40	12.04	12.04	110.80
43	Joseph D. Terry.....	26.40	15.65	10.64	14.35	16.56	12.52	14.16	110.28
44	William P. Giles.....	25.30	13.50	11.12	12.75	19.02	12.96	15.56	110.21

Merit roll of the Naval Cadets of the Third Class—60 members—Annual Examination,  
June, 1895—Continued.

ORDER OF RANKING MERIT.	NAME.	Trigonometry, analytical and descriptive geom- etry.	Physics and chemistry.	English and law.	French, Spanish, and Ger- man.	Mechanical drawing.	Efficiency.	Conduct.	Aggregate.
	Maxima .....	40	20	16	20	24	16	16	152
45	Clarence S. Kempff .....	25.30	13.55	11.36	13.30	19.08	13.04	14.32	109.95
46	Walter M. Falconer .....	28.40	14.15	10.96	13.35	20.22	12.56	10.16	109.80
47	Irwin F. Landis .....	28.70	15.00	12.60	13.50	15.36	11.72	12.88	109.76
48	John W. Morse .....	25.20	12.80	11.72	15.65	16.80	12.92	14.60	109.69
49	Arthur L. Wessels .....	26.80	14.55	10.92	13.15	19.56	12.76	10.92	108.66
50	Oscar D. Duncan .....	26.50	13.95	10.40	13.10	20.40	11.60	12.56	108.51
51	Charles T. Owens .....	28.20	14.35	11.64	13.40	15.72	11.48	12.44	107.23
52	William D. Leahy .....	27.00	14.65	11.80	13.95	16.20	11.72	11.80	107.12
53	Peter L. Pratt .....	25.80	13.75	10.80	14.45	17.94	12.28	11.80	106.82
54	Ernest C. Keenan .....	26.90	13.40	12.20	13.60	15.30	11.64	12.68	105.72
55	Samuel W. Bryant .....	25.70	13.65	10.56	14.35	16.02	12.12	12.88	105.28
56	John F. Hilleary .....	25.80	12.75	10.40	13.25	17.22	12.16	13.64	105.22
57	Samuel G. Magill, jr .....	26.90	14.05	10.64	12.85	17.16	11.68	10.72	104.00
58	Charles J. Naylor .....	25.60	13.55	10.16	13.60	15.72	11.80	12.72	103.15
59	John A. Day .....	27.10	13.35	10.72	17.70	15.72	12.92	9.64	107.15
60	George Van Orden .....	26.70	14.00	11.00	13.30	16.74	12.08	9.68	103.50

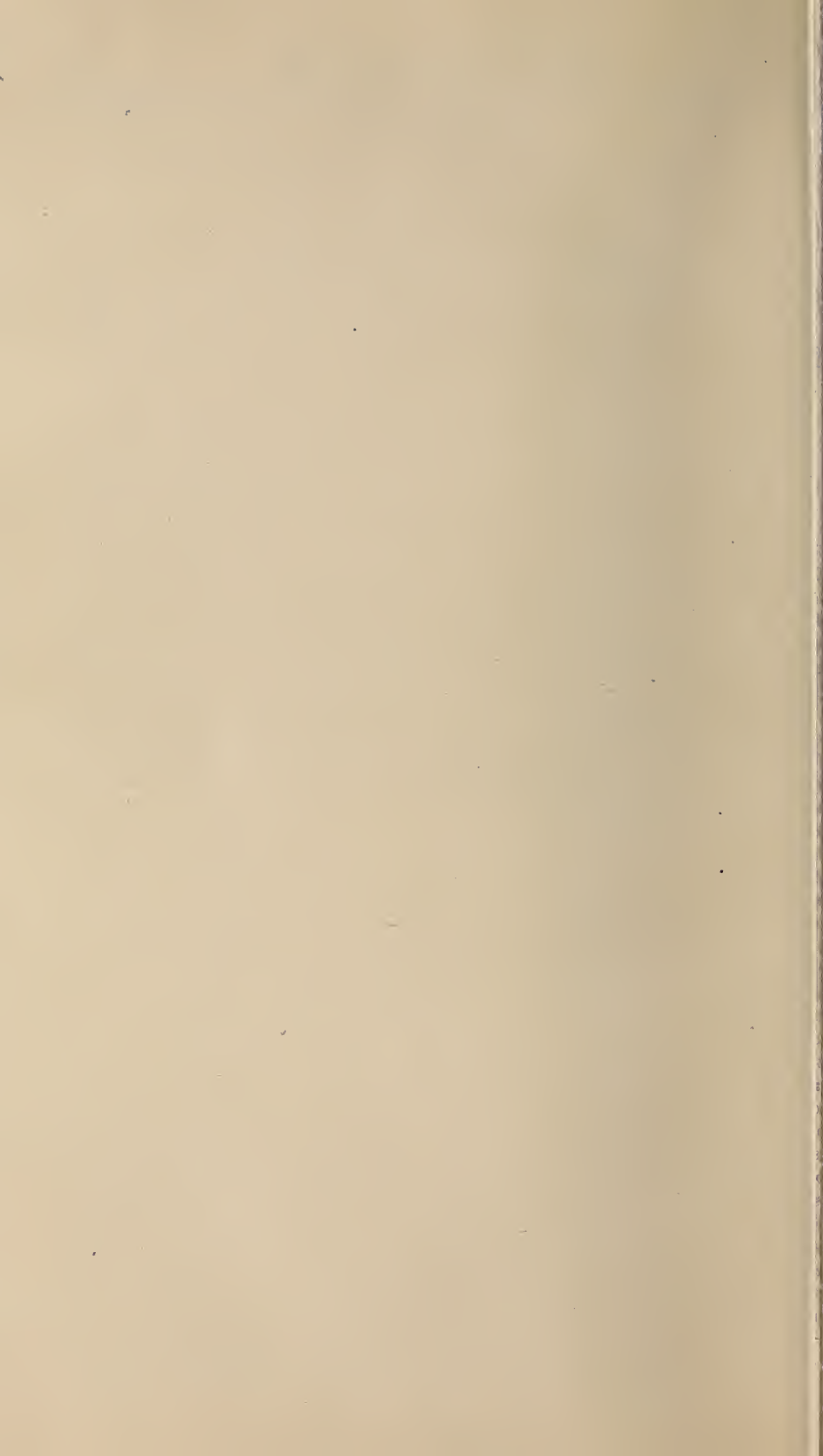


*Merit roll of the Naval Cadets of the Fourth Class—60 members—Annual Examination, June, 1895.*

Order of annual merit.	NAME.	Algebra and geometry.	English and history.	French, Spanish, and German.	Efficiency.	Conduct.	Aggregate.
		20	20	20	8	8	76
	Maxima.....						
*1	Henry T. Wright.....	16.90	18.55	19.20	6.38	7.90	68.93
*2	John Halligan, jr.....	17.15	18.35	18.20	6.18	7.52	67.40
*3	James A. Hand, jr.....	16.85	17.95	16.95	6.14	7.56	65.45
*4	William C. Watts.....	16.70	18.00	17.25	6.10	7.20	65.25
5	Louis Shane.....	15.60	15.95	19.20	6.06	7.04	63.85
6	Edward Woods.....	16.70	16.85	16.70	6.58	7.00	63.83
7	Henry Williams.....	18.25	16.50	15.40	6.12	7.52	63.79
8	William T. Tarrant.....	15.35	17.15	17.40	5.98	7.40	63.28
9	Wilbur G. Briggs.....	16.10	16.70	16.15	6.14	7.96	63.05
10	George T. Pettengill.....	15.65	17.50	16.90	6.14	6.46	62.65
11	Edward W. McIntyre.....	16.30	17.10	15.45	5.96	7.56	62.37
12	George L. Smith.....	16.75	15.40	16.50	6.22	7.42	62.29
13	Charles Boone.....	16.35	15.70	16.10	6.30	7.68	62.13
14	Carl C. Rutledge.....	13.20	16.85	17.95	6.26	7.52	61.78
15	Frank L. Pinney.....	16.55	15.15	15.80	6.22	7.34	61.06
16	James M. Love, jr.....	15.80	15.45	15.40	6.52	7.60	60.77
17	Yancey S. Williams.....	16.30	14.35	16.15	6.14	7.80	60.74
18	Hugh K. Taylor.....	14.60	15.85	16.15	6.28	7.78	60.66
19	Josephus J. Brown.....	14.80	16.35	16.00	6.16	7.08	60.39
20	Henry C. Dinger.....	15.60	16.15	15.30	5.88	7.42	60.35
21	Morris H. Brown.....	14.80	15.55	16.35	6.10	7.46	60.26
22	Herman J. Elson.....	14.35	15.25	16.25	6.06	7.42	59.33
23	Ralph N. Marble, jr.....	16.60	14.95	14.15	6.26	7.28	59.24
24	Clarence A. Abele.....	14.95	16.00	15.05	6.00	7.12	59.12
25	Alexander N. Mitchell.....	14.30	15.80	15.05	6.04	7.62	58.81
26	Lyman A. Cotten.....	15.95	15.60	12.95	6.38	7.76	58.64
27	William B. Wells.....	15.10	15.00	14.90	6.08	7.50	58.58
28	Ulysses S. Macy.....	14.75	15.30	14.90	6.04	7.46	58.45
28	Walter B. Tardy.....	14.70	16.40	13.85	6.16	7.34	58.45
30	Franck T. Evans.....	14.15	14.15	16.90	6.18	6.70	58.08
31	Zeno E. Briggs.....	14.60	15.25	14.15	6.20	7.76	57.96
32	Daniel P. Mannix.....	13.65	15.15	15.60	6.26	7.28	57.94
33	Thomas L. Johnson.....	13.90	15.25	14.90	6.20	7.48	57.73
34	James C. Kress.....	14.35	14.25	15.80	6.16	6.90	57.46
35	Thomas B. Farrin, jr.....	12.95	15.40	15.15	6.04	7.54	57.08
36	Charles P. Nelson.....	13.95	13.50	15.70	6.48	7.20	56.83
37	Henry A. Purse.....	12.75	44.30	15.85	5.92	7.72	56.54
38	William W. Arnold.....	13.85	14.15	14.35	6.52	7.56	56.43
39	William H. England.....	12.50	15.50	14.80	5.66	7.14	55.60
40	Guy W. Faller.....	14.45	13.70	13.55	6.02	7.30	55.02
41	Roscoe L. Peterson.....	13.80	12.95	15.00	6.30	6.96	55.01
42	Walter G. Roper.....	15.00	13.80	13.40	6.20	6.58	54.98
43	William P. Cronan.....	12.95	13.65	14.55	6.06	7.50	54.71
44	Edward T. Constien.....	13.40	13.95	13.00	6.10	7.82	54.27

*Merit roll of the Naval Cadets of the Fourth Class—60 members—Annual Examination, June, 1895—Continued.*

Order of annual merit.	NAME.	Algebra and geometry.	English and history.	French, Spanish, and German.	Efficiency.	Conduct.	Aggregate.
	Maxima .....	20	20	20	8	8	76
45	George Brown, jr.....	12.75	13.00	14.00	6.62	7.88	54.25
46	Zachariah H. Madison.....	13.75	13.60	13.80	6.02	6.98	54.15
47	John A. Schofield.....	13.85	13.45	13.00	6.12	7.36	53.78
48	James B. Gilmer.....	12.60	14.15	13.30	6.14	7.56	53.75
49	George C. Thorpe.....	13.00	13.50	13.85	6.10	6.98	53.43
50	Benjamin L. Brockway.....	12.80	13.15	13.70	6.12	7.46	53.23
50	Charles M. Hunter.....	13.70	13.50	13.95	5.64	6.44	53.23
52	Scott C. Applewhite.....	12.65	13.80	12.75	5.98	7.38	52.56
53	John F. Babcock.....	12.75	13.55	13.25	6.04	6.80	52.39
51	George C. Sweet.....	12.75	12.90	13.60	6.06	6.60	51.91
†	Henry A. Lehfeldt.....	12.05	14.95	14.95	6.14	6.74	54.83
§	Augustus W. Shockley.....	11.55	14.75	14.80	6.26	7.26	54.62
†	John S. Graham.....	12.25	14.05	12.75	6.18	7.18	52.41
†	Arthur F. Huntington.....	12.05	13.25	13.10	5.88	6.56	50.84
†	David C. Hanrahan.....	12.15	13.00	12.75	6.18	6.66	50.74
†	Oliver S. Hord.....	12.60	13.35	12.20	5.98	6.06	50.19



# REGULATIONS

## GOVERNING

### THE ADMISSION OF CANDIDATES INTO THE NAVAL ACADEMY AS CADETS.

#### NOMINATION.

I. The students at the Naval Academy shall be styled *naval cadets*.—(*Rev. Stat.*, 1512, and act of Congress approved August 5, 1882.)

II. There shall be allowed at said Academy one naval cadet for every Member or Delegate of the House of Representatives, one for the District of Columbia, and ten at large.—(*Rev. Stat.*, § 1513, and act of Congress approved June 17, 1878.) *Provided, however,* That there shall not be at any time more in said Academy appointed at large than ten.—(*Act of Congress approved August 5, 1882.*)

III. The course of naval cadets is six years.—(*Rev. Stat.*, § 1520.) Four years at the Naval Academy and two years at sea, at the expiration of which time the cadet returns to the Academy for final graduation, and the district then becomes vacant.

IV. Appointments to fill all vacancies that may occur during a year in the lower grades of the Line and Engineer Corps of the Navy and of the Marine Corps will be made from the naval cadets, graduates of the year, at the conclusion of their six years' course, in the order of merit as determined by the Academic Board of the Naval Academy. At least fifteen appointments from such graduates will be made each year. Surplus graduates who do not receive such appointments will be given certificate of graduation, an honorable discharge, and one year's sea pay, as provided for naval cadets.—(*Act of Congress approved August 5, 1882.*)

V. "The Secretary of the Navy shall, as soon after the fifth of March in each year as possible, notify, in writing, each Member and Delegate of the House of Representatives of any vacancy that may exist in his district. The nomination of a candidate to fill said vacancy shall be made upon the recommendation of the Member or Delegate, if such recommendation is made by the first day of July of that year; but if it is not made by that time the Secretary of the Navy shall fill the vacancy by appointment of an actual resident of the district in which the vacancy exists, who shall have been for at least two years immediately preceding the date of his appointment an actual and bona fide resident of the district in which the vacancy exists and of the legal qualification under the law as now provided. The candidate allowed for the District of Columbia and all the candidates appointed at large shall be selected by the President."—(*Rev. Stat.*, § 1514.)

VI. "Candidates allowed for Congressional districts, for Territories, and for the District of Columbia must be actual residents of the districts or Territories, respectively, from which they are nominated. And all candidates must, at the time of their examination for admission, be between the ages of \* fifteen and twenty years and physically sound, well-formed, and of robust constitution."—(*Rev. Stat.*, § 1517.)

\* Act 2d March, 1889.

VII. Candidates who may be nominated in time to enable them to reach the Academy by the fifteenth of May will receive permission to present themselves on that date to the Superintendent for examination for admission. Those who may not be nominated in time to present themselves at the May examination will be examined on the first of September following.

When either of the above dates shall fall on Sunday the candidates shall present themselves on the Monday following.

Candidates will be required to enter the Academy immediately after passing the prescribed examination.

*No leave of absence will be granted to Cadets of the fourth class.*

#### EXAMINATION.

VIII. "*All candidates for admission into the Academy shall be examined according to such regulations and at such stated times as the Secretary of the Navy may prescribe. Candidates rejected at such examination shall not have the privilege of another examination for admission to the same class unless recommended by the Board of Examiners.*"—(Rev. Stat. § 1515.)

IX. "When any candidate who has been nominated upon the recommendation of a Member or Delegate of the House of Representatives is found, upon examination to be physically or mentally disqualified for admission, the Member or Delegate shall be notified to recommend another candidate, who shall be examined according to the provisions of the preceding section."—(Rev. Stat., § 1516.)

X. Candidates will be examined physically by a board composed of three medical officers of the Navy at the Naval Academy. Any one of the following conditions will be sufficient to cause the rejection of a candidate, viz:

- Feeble constitution, inherited or acquired;
- Retarded development;
- Impaired general health;
- Decided cachexia, diathesis, or predisposition;
- Any disease, deformity, or result of injury that would impair efficiency, such as—
- Weak or disordered intellect;
- Cutaneous or communicable disease;
- Unnatural curvature of spine, torticollis, or other deformity;
- Inefficiency of either of the extremities or large articulations from any cause;
- Epilepsy or other convulsions within five years;
- Impaired vision, disease of the organs of vision, imperfect color sense; visual acuteness must not fall below fifteen-twentieths of the normal in either eye;
- Impaired hearing or disease of the ear;
- Chronic nasal catarrh, ozæna, polypi, or great enlargement of the tonsils;
- Impediment of speech to such an extent as to impair efficiency in the performance of duty;
- Disease of heart or lungs or decided indications of liability to cardiac or pulmonary affections;
- Hernia, complete or incomplete, or undescended testis;
- Varicocele, sarcocele, hydrocele, stricture, fistula, hemorrhoids, or varicose veins of lower limbs;
- Disease of the genito-urinary organs;
- Chronic ulcers, ingrowing nails, large bunions, or other deformity of feet;
- Loss of many teeth, or teeth generally unsound.

Attention will also be paid to the stature of the candidate, and no one manifestly under size for his age will be received at the Academy. In the case of doubt about the physical condition of the candidate, any marked deviation from the usual standard of height or weight will add materially to the consideration for rejection. Five feet will be the minimum height for the candidate.



XI. Candidates will be examined mentally by the academic board in reading, writing, spelling, arithmetic, geography, English grammar, United States history, and algebra. Deficiency in any one of these subjects will be sufficient to insure the rejection of the candidate.

#### GENERAL CHARACTER OF THE MENTAL EXAMINATION.

READING AND WRITING.—Candidates must be able to read understandingly, and with proper accent and emphasis, and to write legibly, neatly, and rapidly.

SPELLING.—They must be able to write from dictation paragraphs from standard pieces of English literature, both prose and poetry, sufficient in number to test fully their qualifications in this branch. The spelling throughout the examination will be considered in marking the papers.

ARITHMETIC.—The candidate will be required—

To express in figures any whole, decimal, or mixed number; to write in words any given number; to perform with facility and accuracy the various operations of addition, subtraction, multiplication, and division of whole numbers, whether abstract or concrete, and to use with facility the tables of money, weight, and measures in common use, including English money.

To reduce compound numbers from one denomination to another, and to express them as decimals, or fractions of a higher or lower denomination; to state the number of cubic inches in a gallon, and the relation between the Troy and Avoirdupois pounds, and to reduce differences of time to differences of longitude and *vice versa*.

To define prime and composite numbers; to give the test of divisibility by 3, 5, 7, 11, 25, and 125; to resolve numbers into their prime factors, and to find the least common multiple and the greatest common divisor of large as well as of small numbers.

To be familiar with all the processes of common and decimal fractions, and to give clearly the reasons for such processes, and be able to use the contracted methods of multiplication and division given in the ordinary text-books on arithmetic.

To define ratio and proportion, and to solve problems in simple and compound proportion.

To solve problems involving the measurement of rectangular surfaces and of solids, to find the square roots and the cube roots of numbers, and to solve simple problems in percentage, interest, and discount.

The candidates are required to possess such a thorough understanding of all the fundamental operations of arithmetic as will enable them to apply the various principles to the solution of any complex problem that can be solved by the methods of arithmetic; in other words, they must possess such a complete knowledge of arithmetic as will enable them to proceed at once to the higher branches of mathematics without further study of arithmetic.

ALGEBRA.—The examination in *algebra* will be elementary in character, and will be limited to questions and problems upon the fundamental rules, factoring, algebraic actions, and simple equations of one or more unknown quantities.

GRAMMAR.—In *English grammar* candidates must exhibit a familiarity with all the parts of speech and the rules in relation thereto; they must be able to parse any ordinary sentence given to them, and generally must understand those portions of the subject usually taught and comprehended under the heads of orthography, etymology, and syntax.

The questions will usually be arranged in three divisions. The first division will contain questions somewhat like these:

Explain the use of the objective case. What verbs have distinction of voice? Give the possessive plural of *sea*, *valley*, *basis*, *stratum*, *bandit*.

The second division will contain one or more sentences to be parsed, *e. g.*:

"They were always a strange family; they rarely acted like other people; their hearts were in the right place, but their heads always seemed to be doing anything but what they



ought." Such a sentence must be parsed *fully*, giving the part of speech, and kind, case, voice, mood, tense, number, person, degree of comparison, etc., as the case may be, of each word, and its relation to the other words; thus—

*Strange* is a descriptive adjective, positive degree. It qualifies the noun *family*.

Comparative, *stranger*.

Superlative, *strangest*.

*Acted*, an intransitive verb, regular (or weak) in conjugation, indicative mood, past tense, third person, plural number. Its subject is *they*.

The third division will contain a number of incorrect sentences to be corrected; thus—

1. *Describe the sources from which our knowledge of these events are derived.* 2. *How sweetly their voices sound!* 3. *Try and do as you was told!* 4. *I should have liked to have been there and seen it.* 5. *There's a sweet little cherubim sits up aloft to keep watch for the life of Poor Jack!*

Among these, correct sentences will sometimes be introduced to test more thoroughly the knowledge of the candidate.

Since the school grammars used in different parts of the country vary among themselves in their treatment of certain words, an answer approved by any grammar of good repute will be accepted.

**GEOGRAPHY.**—Candidates will be required to pass a satisfactory examination, written or oral, or both, in descriptive geography, particularly of our own country. Questions will be given under the following heads: The definitions of latitude and longitude; the zones; the grand divisions of the land and water; the character of coast lines; the direction and position of important mountain-chains and the locality of the higher peaks; the position and course of the principal rivers, their tributaries, and the bodies of water into which they flow; the position of important seas, bays, gulfs, and arms of the sea; the position of independent States, their boundaries and capital cities; the position and direction of great peninsulas, and the situation of important and prominent capes, straits, sounds, channels, and the most important canals; great lakes and inland seas; position and political connection of important islands and of colonial possessions; localities of cities of historical, political, or commercial importance, attention being especially called to the rivers and bodies of water on which cities are situated; the course of a vessel in making a voyage between well-known ports.

The candidate's knowledge of the geography of the *United States* can not be too full or specific on all the points referred to above. Accurate knowledge will also be required of the position of the country with reference to other States, and with reference to latitude and longitude; of the boundaries and relative position of the States and Territories, of the name and position of their capitals, and of other important cities and towns.

**HISTORY.**—Candidates should be familiar with as much of the history of the *United States* as is contained in the ordinary school histories.

The examination will be either written or oral, or both, and questions of the same general character as the following will be given:

1. Name the earliest European settlements within the present limits of the *United States*, and give their positions. When and by whom were these settlements made?

2. Explain the three forms of government in the colonies; royal, proprietary, and charter. Name the colonies that originally existed within the present limits of Massachusetts; of Connecticut. When were these colonies united? What did the colony of Pennsylvania include? When was it divided?

3. State the leading events of the colonial wars, and give the results of each war.

4. What were the remote and immediate causes of the Revolution? Explain the navigation acts, the stamp act, writs of assistance. Name the principal battles and other leading events in the wars of the *United States*, giving the names of commanding officers and stating the results of the battles.

5. Give an account of the formation and adoption of the Constitution.

Give the names of the Presidents, in order, and the leading events in each administration.

## ADMISSION.

XII. Candidates that pass the physical and mental examinations will receive appointments as naval cadets, and become students at the Academy. Each cadet will be required to sign articles by which he binds himself to serve in the United States Navy eight years (including his time of probation at the Naval Academy) unless sooner discharged. The pay of a naval cadet is \$500 a year, commencing at the date of his admission.

XIII. Cadets will supply themselves, immediately after their admission, with the following articles, viz:

One dress jacket.....	\$19.50	One jackknife.....	\$0.75
One blouse.....	11.75	Six sheets.....	3.45
Two pairs trousers.....	21.00	Hammock clews.....	.58
Two working suits.....	22.50	One pair of bathing trunks.....	.20
One overcoat.....	4.00	Three pairs white thread gloves.....	.54
One rubber coat.....	.60	Two black silk neckties.....	.40
One rubber hat.....	1.50	Two clothes bags.....	.46
Two pairs of regulation leggins..	2.95	One hammock mattress.....	3.00
One parade cap.....	.66	a One requisition book.....	.40
One knit cap.....	.10	a One pass book.....	.40
One mug.....	.65	a Stencil, ink, and brush.....	.45
One soap box.....	.34	a One bottle of indelible ink....	.18
One laundry book.....	2.50	a One wash basin and pitcher....	.88
One pair of blankets.....	7.20	a One pair of gymnasium slippers.	1.05
Two pairs of high shoes.....	.72	* One whisk.....	.15
One pair of overshoes.....	4.40	* One coarse comb.....	.10
Eight white shirts.....	1.50	* One cake of soap.....	.10
Twelve linen collars.....	2.00	* One hairbrush.....	.55
Eight pairs of cuffs.....	1.84	* Stationery.....	.50
Eight pairs of socks.....	1.61	* Twelve white handkerchiefs....	2.40
Eight towels.....	1.61	* One pair of suspenders.....	.40
Shaving outfit.....	5.00	* Four suits pajamas.....	6.00
Four pairs of drawers (winter)..	1.60	* One toothbrush.....	.20
Four pairs of drawers (summer)..	5.00	* Thread and needles.....	.19
Four undershirts (winter).....	1.60	* Blacking brush and blacking...	.66
Four undershirts (summer).....	.36	* Nailbrush.....	.30
One hand glass.....			
			24.29
	124.62		

When moving into cadet quarters, cadets will supply themselves with the following articles, viz:

Two bedspreads.....	\$2.20	One mirror.....	\$1.10
Two pairs of drill gloves.....	1.00	a One rug.....	1.00
One slop jar.....	.88	a One hair mattress.....	5.25
Two spatter cloths.....	.66	a One broom.....	.29
One hair pillow.....	.75	Six pillowcases.....	1.38
	5.49		9.02

Cadets will supply themselves with the following additional articles when preparing to embark on board the practice ship, viz:

Three working suits.....	\$2.85	One pair high shoes.....	\$3.60
Four woolen shirts.....	7.40	One knit cap.....	.66
Three white sailor hats.....	1.20		
	<hr/>		<hr/>
	11.45		4.26

Articles marked *a* will not be taken on board the practice ship.

Of the articles marked *b*, cadets entering in September must have four each.

The articles marked \*, not being required to conform to a standard pattern, may be brought by the cadet from home, but all other articles must conform to the regulations, and must therefore be supplied by the storekeeper.

Each naval cadet must, on admission, deposit with the pay officer the sum of \$20, for which he will be credited on the books of that officer, to be expended by direction of the superintendent in the purchase of text-books and other authorized articles besides those enumerated in the preceding article.

All deposits for clothing and the entrance deposit of \$20 must be made before a candidate can be received into the Academy.

#### SUMMARY OF EXPENSES.

Deposit for clothing, etc.....	\$179.13
Deposit for books, etc.....	20.00
	<hr/>
Total amount required.....	199.13

The value of clothing brought from home is to be deducted from this amount.

Each naval cadet *one month after admission* will be credited with the amount of his actual expenses in traveling from his home to the Academy.

# COURSE OF INSTRUCTION.

[Reference books are marked (\*).]

## FIRST YEAR—FOURTH CLASS.

### FIRST TERM.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Mathematics.</i>	4	4	ALGEBRA: Fundamental operations; reduction and conversion of fractional and surd quantities; reduction and solution of equations of the first and second degrees; inequalities; involution and evolution; arithmetical, geometrical, and harmonical progression.	Hall and Knight's Elementary Algebra. Hall and Knight's Higher Algebra. Todhunter's Algebra.*
	2	4	GEOMETRY: Geometry of the straight line, of the circle, and of the plane; theory of proportion; properties of similar figures.	Wentworth's Geometry.
<i>English.</i>	2	4	ENGLISH: The structure and historical development of the English language; syntax; analysis of sentences; punctuation and capitals; exercises in the composition of letters.	Whitney's Essentials of English Grammar. Hart's Punctuation. Buehler's Practical Exercises in English.* Webster's Dictionary.*
	3	4	HISTORY: Outlines of history, especially the history of Greece and Rome, and of the states of western Europe; historical geography; important points in naval history, by notes.	Swinton's Outlines of the World's History. Labberton's Historical Atlas.*
<i>Languages.</i>	5	4	FRENCH: "Natural Method."	Chardenal's Complete French Course. Marion's Le Verbe en quatre Tableaux Synoptiques. Termes Nautiques, Pornain. Bellow's Dictionary.*

## FIRST YEAR—FOURTH CLASS—Continued.

## SECOND TERM.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books,
<i>Mathematics.</i>	3	4	ALGEBRA: Course for first term continued. Development of algebraic functions by means of indeterminate coefficients and the binomial theorem; permutations and combinations; theory of probability; summation of series; continued fractions; logarithms; exponential equations; theory of equations, including the solution of numerical equations; determinants.	Hall and Knight's Higher Algebra. Bowditch's Useful Tables.
	2	4	GEOMETRY: Course for first term continued. Spherical geometry; the cone and the cylinder; mensuration of rectilinear figures, and of the sphere, cone, and cylinder; application of algebra to determinate geometry.	Wentworth's Geometry.
<i>English.</i>	2	4	ENGLISH: Words, sentences, and paragraphs; exercises in the composition of letters and telegrams. Themes.	A. S. Hill's Foundations of Rhetoric. Buehler's Practical Exercises in English.* Webster's Dictionary.*
	3	4	HISTORY: Progress of colonial development in America, and the history of the United States; important points in the naval history of the United States, by notes or lectures.	Eliot's History of the United States. Mitchell's Atlas.*
<i>Languages.</i>	5½	4	FRENCH: "Natural Method."  SPANISH: "Natural Method." (Given as an advanced course.)	Bercy's La Langue Française, 1 <sup>e</sup> partie. Bercy's French Reader. Worman's First Spanish Book. Knapp's Spanish Grammar. Seoane's Dictionary.*



## SECOND YEAR—THIRD CLASS.

## FIRST TERM.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Mathematics.</i>	1	4	DESCRIPTIVE GEOMETRY: Orthographic projections, representation of points, lines, and planes; problems relating to the right line and the plane; representations of surfaces of the second order; projections of the sphere.	Church's Descriptive Geometry. Hendrickson-Dresel's Stereographic Projection. Rittenhouse's Exercises in Descriptive Geometry Drawing.
	4	4	TRIGONOMETRY: Measures of arcs and angles; trigonometric functions; analytical investigations of trigonometric formulas, with their application to all the cases of plane and spherical triangles; construction and use of trigonometric tables; inverse trigonometric functions; De Moivre's theorem; solution of trigonometric equations; practical applications of trigonometry to the solution of plane and spherical triangles, the astronomical triangle, and the measurements of heights and distances.	Chauvenet's Trigonometry. Levett and Davison's Plane Trigonometry. Bowditch's Useful Tables.
<i>English.</i>	2	4	ENGLISH: Rhetoric and composition; choice and use of words; kinds of composition; narration and description; argumentative composition; exercises in the composition of official dispatches, letters, and telegrams. Themes.	A. S. Hill's Principles of Rhetoric. Buehler's Practical Exercises in English.* Webster's Dictionary.*
	2	4	LAW: The Constitution of the United States.	Andrews's Manual of the Constitution.
<i>Languages.</i>	3	4	FRENCH: "Natural Method."  SPANISH: "Natural Method." (Given as an advanced course.)	Modern French Plays. Bercy's La Langue Française, 2 <sup>e</sup> partie. Guerres Maritimes Jurien de la Gravière. Knapp's Spanish Reader.
<i>Drawing.</i>	4	4	MECHANICAL DRAWING: Sketching from models; the use of instruments; construction of scales; notation and symbols used in mechanical drawings; construction of rectilinear and curved figures to scale; drawing section lines; round writing. Drawing exercises in descriptive geometry, including the projections of lines and the representation of planes and geometrical solids, and the projections and sections of surfaces and solids.	Faunce's Mechanical Drawing. Rittenhouse's Exercises in Descriptive Geometry. Drawing.



Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Physics.</i>	4	4	<p><b>PHYSICS:</b> An elementary course intended to present the leading principles and the correlation of the branches of physical science, to which more time is devoted during the second and first class years. Constant practice with the fundamental and derived units of the C. G. S. system. Practical work in the physical laboratory; experiments illustrating the daily recitations and exact measurements of length, mass, volume, and specific gravity. Lectures.</p> <p><b>CHEMISTRY:</b> Recitations in general and organic chemistry. Practical work in the chemical laboratory; experiments illustrating the daily recitations and the determination of simple salts, acids, and bases. Lectures.</p>	<p>Daniell's Principles of Physics.</p> <p>Practical Physics, by Stewart and Gee.</p> <p>Remsen's General Chemistry.</p> <p>Lecture Notes.</p>
<i>Mathematics.</i>	5	4	<p>Stereographic Projections and Solutions of the "Astronomical Triangle."</p> <p><b>ANALYTICAL GEOMETRY:</b> Equations of the straight line and of the conic sections; transformation of coördinates; properties of the conic sections; equations to tangents and normals; determination of loci; discussion of the generalequation of the second degree; equations of the plane, of lines in space, and of surfaces of the second order; the principal properties of surfaces of the second order; discussion of the general equation of the second degree in three variables.</p>	<p>Hendrickson and Dresel's Stereographic Projections.</p> <p>C. Smith's Conic Sections.</p>
<i>English.</i>	2	4	<p><b>ENGLISH:</b> Classification of words; definition of words by usage and by derivation; synonyms; laws of change in the meaning of words; faults in diction and their remedies; selection and arrangement; elementary principles of reasoning; principles of composition; exercises in the composition of official dispatches, letters, and telegrams. Themes.</p>	<p>Abbott and Seeley's English Lessons for English People.</p> <p>Abbott's How to Write Clearly.</p> <p>Buehler's Practical Exercises in English.*</p> <p>Webster's Dictionary.*</p>

## SECOND YEAR—THIRD CLASS—Continued.

## SECOND TERM—continued.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Languages.</i>	2	4	FRENCH: Course of the first term continued. SPANISH: Course of the first term continued.	Same as for the first term.
<i>Drawing</i>	2 <sup>3</sup> / <sub>4</sub>	4	MECHANICAL DRAWING: Sketching from models; representation of objects by projections; drawing the projections of models to scale; oblique projections; drawing screws, bolts, nuts, and gearing; round writing. Drawing exercises in descriptive geometry, including the intersections of surfaces, development of single-curved surfaces, and problems on the surfaces of revolution.	Taunce's Mechanical Drawing. Rittenhouse's Exercises in Descriptive Geometry Drawing.

## COURSE OF INSTRUCTION.

## THIRD YEAR—SECOND CLASS.

## FIRST TERM.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Seamanship.</i>	1	4	SEAMANSHIP: Use of the compass, lead, and log; signals; blocks and tackles; running rigging; description and use of sails and their fittings; purchasing weights; boats and their management; ground tackle; handling anchors; handling sails; port drills and evolutions; management under sail; duties of naval cadets; rules of the road.	Luce's Seamanship. Department circulars.
<i>Steam Engineering.</i>	3	4	PRINCIPLES OF MECHANISM: Marine engines and boilers. Properties of heat and its application to water; combustion; laws and properties of steam; types of marine boilers; comparative efficiency; names and uses of their attachments; hydrometers; scale and its prevention; types of marine engines, including condensers and pumps, with explanation of the use of all the parts; screw propellers and paddle wheels; the indicator and its diagrams; power of the engine and computations relating thereto; casualties; care and management of steam machinery.	Goodeve's Elements of Mechanism. Gow's Notes and Problems in Elementary Mechanism.
<i>Mechanics.</i>	5	2	DIFFERENTIAL CALCULUS: Functions; rates; differentials of functions; indeterminate forms; series; maxima and minima; geometrical applications; functions of two or more variables.	Rice and Johnson's Differential Calculus.
	5	2	INTEGRAL CALCULUS: The methods of integration; definite integrals; quadrature of surfaces; cubiture of volumes; rectification of curves; centers of gravity; moments of inertia; planimeters; rules for the approximate determination of areas and volumes.	Johnson's Integral Calculus.

## THIRD YEAR—SECOND CLASS—Continued.

## FIRST TERM—continued.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Physics.</i>	4	4	<p>PHYSICS: Recitations on simple harmonic motion; wave motions, sound light, and heat. Practical work in the physical laboratory; experiments illustrating the daily recitations, and some exact measurements, such as the determination of the candle power of gas and electric lights, index of refraction of glass prisms and lenses and of liquids, focal length of lenses; length of light waves. Photography.</p> <p>CHEMISTRY: Short course in chemical analysis.</p>	<p>Daniell's Principles of Physics.</p> <p>Ganot's Physics.</p> <p>Stewart's Treatise on Heat.</p> <p>Practical Physics, by Stewart and Gee.</p> <p>Kohlrausch's Physical Measurements.</p> <p>Lecture Notes.</p> <p>Stoddard's Outline of Qualitative Analysis for Beginners.</p>
<i>English.</i>	1	4	HISTORY: The history of the United States Navy.	Maclay's History of the Navy.
<i>Languages.</i>	1	4	FRENCH: Reading and translation of professional articles, and conversation.	Jurien de la Gravière's Guerres Maritimes.
<i>Drawing.</i>	2	4	MECHANICAL DRAWING: Drawing gearing; sketching machinery and making working drawings; round writing; tracings and blue prints of drawings; isometrical drawing.	<p>Tomkin's Machine Construction.*</p> <p>Faunce's Mechanical Drawing.</p>

## THIRD YEAR—SECOND CLASS—Continued.

## SECOND TERM.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Seamanship.</i>	1	4	Course of the first term continued.	Same as for the first term.
<i>Navigation.</i>	2	4	THE CELESTIAL SPHERE: Spherical and rectangular coördinates; use of instruments, especially those for determining terrestrial latitudes and longitudes; refraction; dip; parallax; the earth, sun, planets, and solar system in general; different units of time and calendars; laws of universal gravitation, precession, nutation, and aberration; the moon; eclipses and occultations; tides; comets and meteoric bodies; fixed stars; nebulae; motion of the solar system; solutions of the astronomical triangle; use of the Nautical Almanac. Dead reckoning and "day's work."	White's Astronomy. Bowditch's Navigator. American Ephemeris and Nautical Almanac.
<i>Steam Engineering.</i>	3	4	MARINE ENGINES: Early history and progress of marine engineering; work and efficiency; nature and properties of heat; application of heat to water; combustion of coal and economy of fuel; arrangement and efficiency of boilers; fittings and mountings of boilers; corrosion and preservation of boilers; efficiency of the steam; methods of increasing the expansive efficiency of steam; compound engines; condensation of steam; regulating and expansion valves and gear; slide valves and fittings; starting and reversing gears; cylinders and their fittings; condensers and fittings; rotatory motion; details of compound and triple-expansion engines; propulsion; screw-propellers; the indicator and indicator diagrams; auxiliary machinery and fittings.	Sennett's Marine Steam Engine. Marine Engines: Problems, Notes, and Sketches. 1895.
<i>Mechanics.</i>	5	4	MECHANICS: Kinematics; dynamics; kinetics; hydromechanics; the motion of projectiles; friction and other resistances; the application of mechanical principles to simple machines and to instruments.	Zievet's Mechanics. Bowser's Hydromechanics.

## THIRD YEAR—SECOND CLASS—Continued.

## SECOND TERM—continued.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Physics.</i>	4	4	<p>PHYSICS: Recitations in light and heat concluded.</p> <p>Electricity and magnetism commenced.</p> <p>Practical work in the physical laboratory; calibration of thermometers; determination of the hygrometric state of the atmosphere; measurements of the coefficients of expansion and the specific heat and latent heat of various substances; other experiments illustrating the course of study and leading to the skillful use of instruments of precision. Photography. General experiments illustrating the phenomena of statical and voltaic electricity; setting up and comparing galvanic cells and secondary batteries; measuring their resistance and electro-motive force; calibration of galvanometers; determination of dip and horizontal intensity.</p>	<p>Same as for the first term.</p> <p>Thompson's Electricity and Magnetism.</p> <p>Ayrton's Practical Electricity.</p> <p>Day's Exercises in Electrical Measurements.*</p> <p>Lecture Notes.</p>
<i>English.</i>	1	4	HISTORY: The history of the United States Navy.	Maclay's History of the Navy.
<i>Languages.</i>	1	4	FRENCH: Reading French newspapers, and conversation on subjects of the day; themes and written translations.	Same as for the first term and French newspapers.



## FOURTH YEAR—FIRST CLASS—LINE DIVISION.

## FIRST TERM.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Seamanship.</i>	3	4	<p>SEAMANSHIP: Stowage and organization; boats and their management; ground tackle; handling anchors; handling sails; management under sail and under steam; turning and maneuvering; wharfing, docking, towing, anchoring, mooring, etc.; emergencies; port drills and evolutions; duties of officers and crew; routine; rules of the road; laws of storms and management in cyclones; use of sounding machine.</p> <p>NAVAL CONSTRUCTION: Definitions; history and practice of shipbuilding in iron and steel; systems of construction, subdivision, and armoring; systems of pumping, draining, ventilating, steering, and hoisting; fittings in general; distribution of armor, guns, and boats; special constructions; launching; types of ships; structural strength and strains; buoyancy and stability in the intact and the damaged conditions; theory and observation of waves; rolling and pitching; principles of stowage; resistance, propulsion, and steering of ships; qualities of ships; construction and use of diagrams of qualities; the use of qualities; steam steering gear; steam capstan; plans of ships and reproduction in mold loft; finding the displacement of ships and center of buoyancy, etc.</p> <p>NAVAL TACTICS: Organization of the fleet; school of the ship; section and squadron; evolutions of the fleet; signaling by Army and Navy code; Navy and International codes of flag signals.</p>	<p>Luce's Seamanship. Department Circulars. Navy Regulations.</p> <p>Special Notes and Drawings. Navy Department Pamphlets. White's Manual of Naval Architecture. Welch's Text-book of Naval Architecture.</p> <p>Navy and International Signal Books. Fleet Drill Book (Navy Department).</p>
<del><i>Ordnance.</i></del>	<del>3</del>	<del>4</del>	<del>GUNNERY: Accuracy and rapidity of fire; the probability of hitting objects of various forms; the mean and probable errors of guns; derivation of rules for correcting certain errors that arise in practice at sea.</del>	<del>Accuracy and Probability of Fire (Naval Academy publications).</del>

## FOURTH YEAR—FIRST CLASS—LINE DIVISION—Continued.

## FIRST TERM—continued.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<del>Ordnance—Cont'd.</del>	3	4	<p>INSTRUCTIONS FOR INFANTRY AND ARTILLERY: Schools of the squad, company, battalion, and brigade, in close and extended orders; street riot drill; ceremonies.</p> <p>GUNNERY DRILL: Distribution of the crew to the guns and other stations; duties of officers and men; drill of guns of the main and secondary batteries.</p> <p>GUNS AND GUN MOUNTS: Metals used in their construction; description and manufacture of service guns and their mounts for main and secondary batteries; nomenclature, care, and preservation of the ordnance outfit.</p>	<p>Instructions for Infantry and Artillery, U. S. Navy.</p> <p>Gunnery Drill Book for the New Armaments.</p> <p>Text-book of Ordnance and Gunnery.</p> <p>Descriptions of Modern Ordnance and Modern Gun Mounts.</p>
Navigation.	4	4	<p>THE THEORY AND PRACTICE OF NAVIGATION, including instruction in the duties of the navigator, the construction and use of navigating instruments, the use of tables, and the solution of problems; determination of meridian distances.</p> <p>HYDROGRAPHIC SURVEYING: The instruments used; selection and measurement of bases; determination of azimuth of base; triangulation; determination of heights; leveling; plotting a survey; hydrographical surveying; tidal observations; current observations; sailing directions; the form of the earth, with special reference to the construction of charts; projections; running surveys.</p>	<p>Chauvenet's Spherical and Practical Astronomy.*</p> <p>Walker's Navigation.</p> <p>Bowditch's Navigator.</p> <p>American Ephemeris and Nautical Almanac.</p> <p>Phelps's Practical Marine Surveying.</p> <p>Projection Tables.</p> <p>Craig's Azimuth.*</p>
Mechanics.	3	1	METHOD OF LEAST SQUARES: The theory of least squares and probable errors; fundamental principles of the theory; practical methods and formulas; independent observations; conditioned observations.	Johnson's Method of Least Squares.
	3	3	APPLIED MECHANICS: Strength of materials; elasticity; stress and strain; theory of structures; strength and deflection of beams; beams of uniform resistance.	<p>Cotterill and Slade's Lesson in Applied Mechanics.</p> <p>Cotterill's Applied Mechanics.</p>

## FOURTH YEAR—FIRST CLASS—LINE DIVISION—Continued.

## FIRST TERM—continued.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Physics.</i>	3	4	PHYSICS: Recitations in electricity and magnetism; practical work in physical laboratory; determination of the constants of galvanometers; testing ammeters and voltmeters; running dynamos and electric motors and measuring their efficiency; experiments on the electric transmission of energy; testing cables and electric light wires; experiments upon induction; practice in photography and micro-photography.	Same as for the second class year. Thompson's <i>Dynamo Electric Machinery</i> . Lecture Notes.

## SECOND TERM.

<i>Seamanship.</i>	4	4	Course of the first term continued.	Same as for the first term.
<i>Ordnance.</i>	5	4	<p>BALLISTICS: The laws of combustion of gunpowder; velocities and pressures in guns; rifling, effect on pressure; the motion of projectiles in a nonresisting medium and in air; computation and use of ballistic and range tables; accuracy and probability of fire; derivation of rules for correcting the errors which arise in gunnery practice; the penetration and effect of projectiles.</p> <p>GUNS: Computation of their elastic strength and shrinkage.</p> <p>AMMUNITION: Its description, preparation, supply, stowage, and use.</p> <p>ARMOR: Description of; use of armor and other protection of matériel and personnel.</p> <p>TORPEDOES: Their description and use.</p> <p><del>GUN CARRIAGES: Their construction and the mechanism employed in controlling and adjusting recoil, and the theory of such control.</del></p> <p><del>AMMUNITION: Its preparation and use.</del></p>	<p>Interior and Exterior Ballistics.</p> <p>Accuracy and Probability of Fire.</p> <p>Ordnance Notes.</p> <p>The Elastic Strength of Guns.</p> <p>Text-book of Ordnance and Gunnery.</p>

## FOURTH YEAR—FIRST CLASS—LINE DIVISION—Continued.

## SECOND TERM—continued.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Navigation.</i>	4	4	THEORY OF THE DEVIATION OF THE COMPASS, including the nature and causes of the several parts of deviation, the determination of the vertical and horizontal forces of the earth and ship, the causes and amount of the heeling error, the changes that take place upon a change of geographical position, the graphic representations of the amount and direction of the forces that act on the needle, and the mechanical correction of the deviation and heeling errors. PRACTICAL NAVIGATION. PRACTICAL SURVEYING.	Admiralty Manual for the Deviations of the Compass. Diehl's Practical Problems and the Compensation of the Compass in the United States Navy.*
<i>English.</i>	2	4	INTERNATIONAL LAW: The objects, sources, and sanctions of international law; the laws of war, embargo, reprisal, and retorsion; blockade; contraband of war; right of search; ship's papers and nationality; prizes; privateering; piracy; the rights and duties of neutrals; jurisdiction over vessels at sea and in territorial waters; fugitives and deserters; licenses to trade; recaptures.	Woolsey's International Law.
	4	4	SPECIAL INSTRUCTIONS: General description of the human body and its functions; the arrest of hemorrhage; resuscitation from drowning; alcoholic drinks, tobacco, and other narcotics. (Lectures and practical instruction Fridays, 7:30 to 9:30 p. m.. additional.)	Martin's The Human Body and the Effects of Narcotics.

## FOURTH YEAR—FIRST CLASS—ENGINEER DIVISION.

## FIRST TERM.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Seamanship.</i>	2	4	NAVAL CONSTRUCTION: Definitions; history and practice of shipbuilding in iron and steel; systems of construction, subdivision, and armoring; systems of pumping, draining, ventilating, steering, and hoisting; fittings in general; distribution of armor, guns, and boats; special constructions; launching; types of ships; structural strength and strains; buoyancy and stability in the intact and the damaged conditions; theory and observation of waves; rolling and pitching; principles of stowage; resistance, propulsion, and steering of ships; qualities of ships; construction and use of diagrams of qualities; the use of qualities; steam steering gear; steam capstan; plans of ships and reproduction in mold loft; finding the displacement of ships and center of buoyancy, etc.	Special Notes and Drawings. Navy Department Pamphlets. White's Manual of Naval Architecture. Welch's Text-book of Naval Architecture.
<i>Steam Engineering.</i>	3	4	MARINE ENGINES: General description of modern marine engines and their dependencies; expansion of steam; piston speed and size of cylinders; uses and construction of parts of a marine engine; calculations on twisting and bending moments; principles and construction of condensers and pumps; types of valves and valve gear, and valve diagrams; principles and construction of various types of propellers; the indicator and its diagrams; power of an engine and calculations relating thereto; lectures on the metallurgy of iron and steel; the production of bronzes and alloys with reference to their use in marine engineering.	Seaton's Marine Engineering.



## FOURTH YEAR—FIRST CLASS—ENGINEER DIVISION—Continued.

## FIRST TERM—continued.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Steam Engineering—Continued.</i>	2	4	BOILERS: Various types and efficiency of steam boilers; construction of boilers in detail, and materials used; details of fittings and attachments; causes of decay; care and preservation of boilers; fuels, solid and liquid; combustion of, with the methods of their application under natural and forced draft, their comparative qualities and properties, with instructions as to their selection for, and care of, as steam fuels; practical tests of the calorific value of fuels.	Seaton's Marine Engineering. Stromeyer's Marine Boiler Management and Construction.
	3	4	DESIGNING MACHINERY: The strains to which machinery is subjected, and the resistance offered to these strains; relative value of materials used in machinery as to cost and strength; testing materials; principles and considerations governing the design, drawing, specifications, and proportions of the various parts of engines and boilers, with practical application in the designing room.	Unwin's Elements of Machine Design—Parts I and II.
<i>Mechanics.</i>	3	4	Same as for the line division.	Same as for the line division.
<i>Physics.</i>	3	4	Same as for the line division.	Same as for the line division.



## FOURTH YEAR—FIRST CLASS—ENGINEER DIVISION—Continued.

## SECOND TERM.

Department.	Number of recitations a week.	Number of months.	Subjects.	Text-books.
<i>Seamanship.</i>	3	4	Course of the first term continued.	Same as for the first term.
<i>Steam Engineering.</i>	3	4	MARINE ENGINES: Objects of test trials; boiler trials and their results; friction of the engine, and the dynamometer; standard methods and examples of engine trials.  Physical properties of steam; convertibility of heat and work; theory of the steam engine; air and heat engines; efficiency of an engine; theoretical considerations governing the expansion of steam; effects of clearance, wire drawing, jacketing, liquefaction, and reëvaporation; experiments on the steam engine and the methods of determining its efficiency.	Lineham's Mechanical Engineering, Part I.  Cotterill's Steam Engine Considered as a Heat Machine.
	3	4	BOILERS: Designing and drawing.	Same as for the first term, with notes.
	3	4	DESIGNING MACHINERY: Designing and drawing.	Same as for the first term, with notes.
	3	4	EXPERIMENTAL ENGINEERING: Tests and experiments; standardizing indicators, steam and vacuum gauges, recording and measuring instruments, etc.; tests of fuels and lubricants; determination of strengths and elasticities of metals with the testing-machine; engine and boiler tests; dynamometric tests of propellers, etc.	Carpenter's Experimental Engineering.
	1	4	SPECIAL INSTRUCTION: Same as for the line division.	Same as for the line division.

## ASSIGNMENT OF TIME.

Departments.	Fourth class.		Third class.		Second class.		First class, line division.		First class, engineer division.	
	1st term.	2d term.	1st term.	2d term.	1st term.	2d term.	1st term.	2d term.	1st term.	2d term.
Seamanship .....	.....	.....	.....	.....	1	1	3	4	2	3
Ordnance .....	.....	.....	.....	.....	.....	.....	3	5	.....	.....
Navigation .....	.....	.....	.....	.....	.....	2	4	4	.....	.....
Steam Engineering .....	.....	.....	.....	.....	3	3	.....	.....	8	12
Mechanics .....	.....	.....	.....	.....	5	4½	3	.....	3	.....
Physics .....	.....	.....	.....	4 F	4	4	3	.....	3	.....
Mathematics .....	6	5	5	5	.....	.....	.....	.....	.....	.....
English .....	5	5	4	2	1	1	.....	2	.....	.....
Languages .....	5	5¼	3	2	1 F	1 F	.....	.....	.....	.....
Drawing .....	.....	.....	4	2½	2	.....	.....	.....	.....	.....

## SPECIAL INSTRUCTION.

The effects of alcohol, tobacco, and other narcotics .....	.....	¼ F	.....	¼ F
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F Friday 7:30 to 9:30 p. m.

## PROGRAMME OF RECITATIONS.

## FIRST TERM.

Departments.	Fourth class.	Third class.	Second class.	First class, line division.	First class, engineer division.
Seamanship.....			M. (3).....	T. W. Th. (3).....	T. W. (3).....
Ordnance.....				T. Th. (2), F. (3).....	
Navigation.....				M. (3), W. F. S. (1).....	
Steam Engineering.....			W. Th. F. (3).....		{ W. F. S. (1), T. Th. (2), M. Th. F. (3).
Mechanics.....			M. T. W. F. (1), Th. (2).....	M. W. F. (2).....	M. W. F. (2).....
Physics.....			M. T. W. F. (2).....	M. T. Th. (1).....	M. T. Th. (1).....
Mathematics.....	M. T. W. Th. F. S. (1).....	M. T. W. Th. F. (2).....	Th. (1).....		
English.....	M. T. W. Th. F. (2).....	M. F. S. (1), T. (3).....	F. (7:30 to 9:30 p. m.) *.....		
Languages.....	M. T. W. Th. F. (3).....	T. W. Th. (1).....	T. (3), S. (1).....		
Drawing.....		M. W. Th. F. (3).....			

## SECOND TERM.

Seamanship.....			W. (2).....	M. T. W. Th. (3).....	M. W. Th. (3).....
Ordnance.....				M. T. W. Th. (2), F. (3).....	
Navigation.....			M. T. (3).....	M. T. Th. F. (1).....	
Steam Engineering.....			W. Th. F. (3).....		{ M. T. W. Th. F. (1), M. W. (2), T. F. (3), T. Th. F. (2).
Mechanics.....			M. W. Th. F. S. (1) †.....		
Physics.....		{ M. (3), T. W. F. (1), } F. (7:30 to 9:30 p. m.) *.....	M. T. Th. F. (2).....		
Mathematics.....	M. T. W. Th. F. (1).....	M. T. W. Th. F. (2).....	T. (1).....	W. (1), F. (2).....	
English.....	M. T. W. Th. F. (3).....	M. Th. (1).....	F. (7:30 to 9:30 p. m.) *.....		
Languages.....	M. T. W. Th. F. (2), S. (1) †.....	W. Th. (3).....			
Drawing.....		T. F. (3), S. (1) †.....			
Special Instruction (Physiology and Hygiene).				S. (1) † F. (7:30 to 9:30 p. m.) *.....	S. (1) † F. (7:30 to 9:30 p. m.) *

\* Lectures and practical instruction.

† Saturday period, second term, from January 31 to March 10

## TABLE OF CO

DEPARTMENT AND SUBJECTS.	Fourth class.
Ship, Naval Construction, and Naval Tactics.	4
p, Naval Construction, and Tactics* .....	
ruise.....	
Ordnance and Gunnery.	
Instructions, Infantry Tactics, Gunnery .....	
and Gunnery.....	
ny, Navigation, and Surveying.	
y, Navigation, and Surveying.....	
ruise.....	
Steam Engineering.	
achinery, Marine Engines, and .....	
actical Work.....	
gines .....	
Machinery.....	
ics and Applied Mathematics.	
al and Integral Calculus, and .....	
cs .....	
ares and Strength of Materials .....	
Physics and Chemistry.	
and Physics .....	
Mathematics.	
nd Geometry .....	5
etry, Analytical Geometry, and .....	
ive Geometry.....	
Studies, History, and Law.	
nd History.....	5
nd Law .....	
nal Law.....	
Modern Languages.	.
panish, and German .....	5
Mechanical Drawing.	
al Drawing .....	
Miscellaneous.	
struction (Physiology and Hy-	
port.....	
n Note Book, Journals, and .....	
Bills .....	
tima for each class .....	76

anship and Naval Tactics for line division

SECOND TERM.

Astronomy, Navigation, and Surveying	M. T. W. Th. F. (3)	M. T. (3)	M. T. Th. F. (1)
English Studies, History, and Law	M. T. W. Th. F. (3)	T. (2)	W. (3), F. (2)
Mathematics	M. T. W. Th. F. (3)		
Mechanical Drawing	M. T. W. Th. F. (3)		
Mechanics and Applied Mathematics	M. T. W. Th. F. (3), S. (1)		
Modern Languages	W. R. (3)	M. W. Th. F. (1)	T. Th. F. (2)
Ordnance and Gunnery		S. (1), F. (7:30 to 9:30 p.m.)*	
Physics and Chemistry			M. T. Th. F. (2), F. (3)
Seamanship, Naval Construction, and Naval Tactics	{ M. (3), T. W. F. (3), F. (7:30 to 9:30 p.m.) }	M. Th. F. (2), T. (1)	
Steam Engineering		W. (2)	M. T. W. Th. (3)
		W. Th. F. (3)	{ M. T. W. Th. F. (1), W. (2), T. F. (2) }

TABLE OF COEFFICIENTS.

DEPARTMENT AND SUBJECTS.	Fourth class.	Third class.	Second class.	First class, line division.	First class, engineer division.	Maxima for four years, line division.	Maxima for four years, engineer division.	Maxima for final graduation, line division.	Maxima for final graduation, engineer division.
Discipline ..... { Conduct ... { Efficiency ...	3 1	5 3	7 5	8 8	8 2	160	160		
<i>Seamanship.</i>									
Seamanship, Naval Construction, and Naval Tactics* .....			3	13	8		44	56	32
Practice Cruise .....				2		72			
<i>Ordnance.</i>									
Ordnance Instructions, Infantry Tactics, and Gunnery .....				15		60		44	
Ordnance and Gunnery .....									
<i>Navigation.</i>									
Astronomy, Navigation, and Surveying ..			3	12			12	44	
Practice Cruise .....				2		68			
<i>Steam Engineering.</i>									
Steam Machinery, Marine Engines, and Boilers .....			8					20	
Summer Practical Work .....			2		5	44			
Marine Engines .....					10				72
Designing Machinery .....					12				36
Boilers .....					8		184		40
<i>Mechanics.</i>									
Differential and Integral Calculus, and Mechanics .....			12						
Least Squares and Strength of Materials ..				5	5	68			
Mechanics .....					5		88		
<i>Physics.</i>									
Chemistry and Physics .....		4							
Physics .....			10	5	5	80	80		
<i>Mathematics.</i>									
Algebra and Geometry .....	5								
Trigonometry, Analytical Geometry, and Descriptive Geometry .....		10				60	60		
<i>English.</i>									
English and History .....	5		2						
English and Law .....		5					36		
International Law .....				4		52		24	
<i>Languages.</i>									
French, and Spanish .....	5	5	2			52	52	28	28
<i>Drawing.</i>									
Mechanical Drawing .....		6	3			36	36		
<i>Miscellaneous.</i>									
Special Instructions (Physiology and Hy- giene) .....				2	2	8	8		
Cruise Report .....								16	16
Navigation Note Book, † Journals, and Station Bills .....								8	16
Maxima for each class .....	76	152	228	304	304	760	760	240	240

\*Seamanship and Naval Tactics for line division alone.

† In making up the standing for a year the second term is given double the weight of the first term.

‡ Navigation note-books for line division alone.



## PRACTICAL INSTRUCTION OF CADETS.

## SEAMANSHIP.

Knotting and splicing; compass and lead line; ship nomenclature; cutting and fitting hemp rigging; cutting and fitting wire rigging; rowing, and the management of boats under oars and under sail; sailmaking; making up, bending, unbending, and handling sails; rigging ship; stripping ship; shifting spars; getting under way and anchoring; evolutions with vessels under sail and under steam; signaling, Army and Navy code; management of steam launches; steam fleet tactics with steam launches.

## ORDNANCE.

Infantry, schools of the squad, company, and battalion, in close and extended orders; artillery, schools of the battery and battalion; exercise and target practice with small arms and guns of main and secondary batteries; exercise with cane, smallsword, and broadsword; handling and firing torpedoes; use of Riehlé and Rodman testing machines; determinations of velocities with the Le Boulengé and Schultz chronoscopes; experimental determination of range tables, also of the jump and drift; the preparation, inspection, care, and preservation of ordnance material.

Six medals are awarded annually for marksmanship: Gold, silver, and bronze medals to the cadets of the first class, as first, second, and third prizes, respectively, for excellence in rapid-fire gun practice; and gold, silver, and bronze medals to the cadets of the second class, as first, second, and third prizes, for excellence in practice with the service rifle and revolver.

In June, 1895, the medals for rapid-fire gun practice were awarded as follows:

Gold medal to Cadet R. Z. Johnston.

Silver medal to Cadet A. T. Chester.

Bronze medal to Cadet J. D. Sayers.

The medals for small-arm marksmanship for 1895 were awarded as follows:

Gold medal to Cadet T. C. Hart.

Silver medal to Cadet P. L. Pratt.

Bronze medal to Cadet S. G. Magill, jr.

At the competitive company drill on June 5, 1895, the battalion colors were awarded to the Second Company—Cadet-Lieutenant P. M. Baunon, commanding—as being the best-drilled company.

## NAVIGATION.

Navigation: Observations, with sextant and artificial horizon, for time, longitude, chronometer correction, latitude, and azimuth.

Surveying: Surveying, and constructing a chart of, a portion of the Severn River.

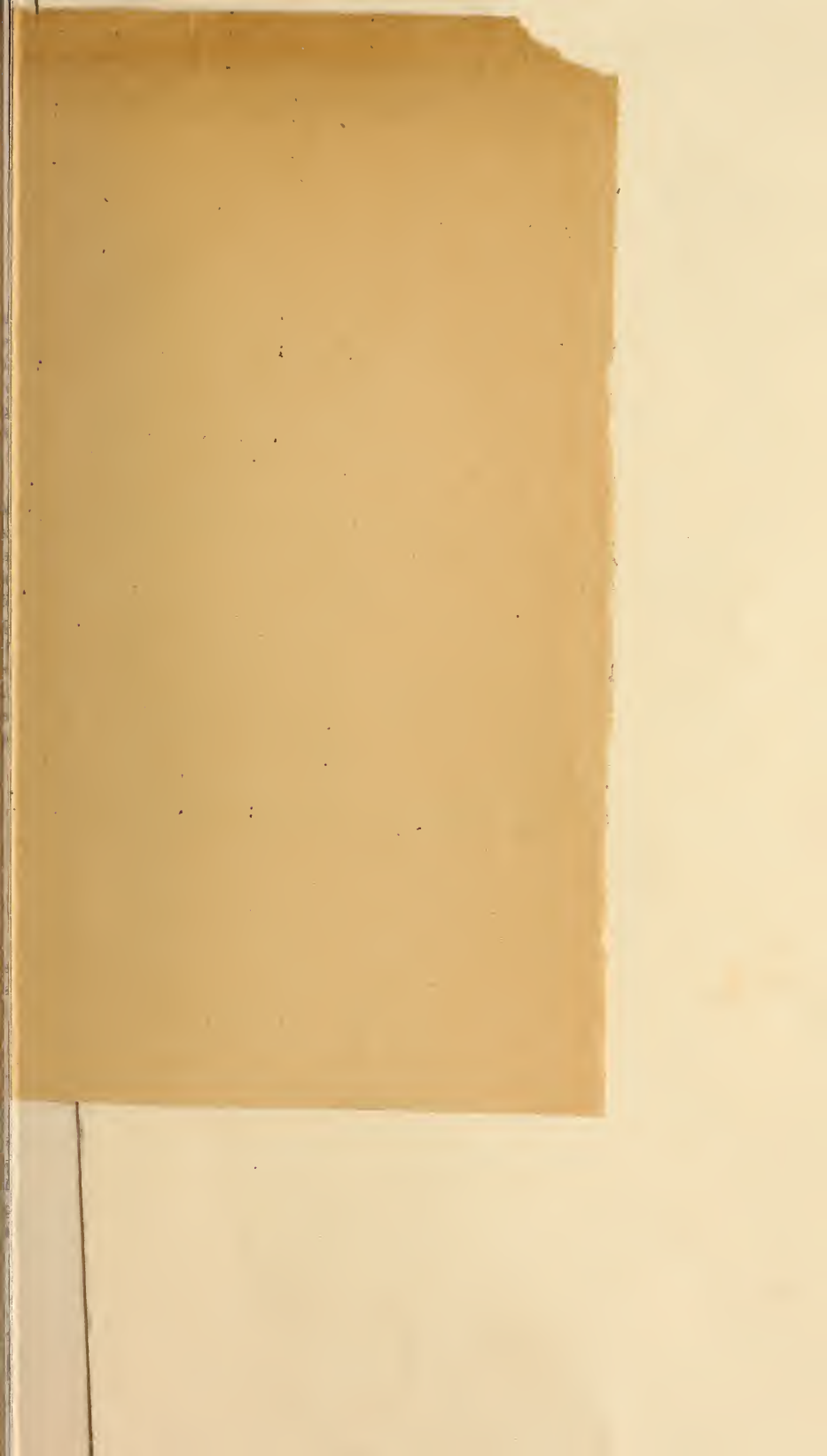
Compass Deviations: Swinging an iron ship, and observing the deviations and the times of vibration of horizontal and vertical needles on different courses; from these observations finding the approximate and the exact coefficients, and the horizontal and the vertical forces acting on the standard and steering compasses; also finding the heeling coefficients for the same compasses without heeling the ship; also correcting the deviations of a compass, using a Navy compensating binnacle.

## STEAM ENGINEERING.

Shopwork:

The Pattern Shop: Selection and treatment of different woods for different purposes. Elementary work of the carpenter shop, through mortising, joining, etc., to finished pattern work.

The Foundry: Iron and brass casting; the making of bronzes, alloys, etc.



	:	:	X	:	:	:	:
	:	:	X	:	:	:	:
	:	:	X	:	:	:	:
	:	:	X	:	:	:	:
g and Celestial	:	:		:	:	:	:
I.	:	:	X	:	:	:	:
g and Celestial	:	:		:	:	:	:
II.	:	:	X	:	:	:	:
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III.	:	:	X	:	:	:	:
V.	:	:	X	:	:	:	:
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vy	:	:		:	:	:	X
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on - Basic	:	:		:	:	:	X
I)	:	:		:	:	:	:
f Identification	:	:		:	:	:	:
	:	:		:	:	:	X
Bearings	:	:		:	:	:	X
Importance	:	:		:	:	:	X
s I, II & III	:	:		:	:	:	X

The Blacksmith Shop: Forging, welding, etc.; tempering, case hardening, etc.; bending and quenching tests of metals.

The Boiler Shop: Riveting, soft and hard patching, calking, annealing, tube expanding, etc.; testing.

The Machine Shop: Vise bench work, machine tool work including the setting of work, turning, planing, boring, slotting, etc.; pipe fitting; building, erection, and aligning of engines and engine fitting; preparation of working drawings and working from the same.

#### Shipwork:

Management of main and auxiliary engines: Getting up steam at leisure and in emergencies; fire-room and engine-room routine, firing, water-tending, and oiling; routine under way when desirable to obtain maximum speed; same for maximum steaming radius; management of engines while manœuvering at sea; determining the condition and locating defects in machinery while in motion; causes and prevention of explosion of boilers, steam pipes, gases in uptakes and in coal bunkers; lying under banked fires; coming to anchor; overhauling machinery; cleaning boilers and condensers; preservation of machinery of a vessel when out of commission; conducting progressive and full-power trials and the collecting of data.

Ordinary Casualties: Hot crown sheets, burst feed pipes, leaky boiler tubes and seams, burnt grate bars, hot pins and journals, fire in bunkers, flooded compartments.

Damages received in battle: Preparations for action; temporary repairs and alternative devices and expedients to be adopted in event of receiving injury from shot or torpedoes; quick methods of disabling machinery about to fall into the hands of the enemy.

Instruments: Use of slide rule, averaging machine, apparatus for testing oils and smoke gases; standardizing steam gauges and indicators.

Miscellaneous: Preparing specifications for purchase of machinery and stores; testing, inspection, and preservation of stores; preparation of various cements, paints, and varnishes in ordinary use; selection of coals; making estimates of the amount of coal on hand, prevention of deterioration, etc.; making of watch, quarter, and station bills.

#### PHYSICAL TRAINING.

Class drills in calisthenics, free movements and with apparatus.

Special exercises to promote symmetrical development when necessary. Athletic exercises, including boxing and swimming. Dancing.

# PROGRAMME OF PRACTICAL INSTRUCTION.

When more than one kind of exercise is prescribed during a week, the number of each exercise is indicated by a figure in parentheses.

## FIRST CLASS.

Aca- demic months.	Week ending	First division.	Second division.	Third division.	Fourth division.
1895.					
Oct.....	5	Company.	Target, great guns (4) Seamanship (1).	Artillery.	Steam tactics (4). Seamanship (1).
	12	Artillery.	Steam tactics (4). Battery drill (1).	Company.	Target, great guns (4) Battery drill (1).
	19	Target, great guns (4) Seamanship (1).	Company.	Steam tactics (4), Seamanship (1).	Artillery.
	26	Steam tactics (4), Battery drill (1).	Artillery.	Target, great guns (4) Battery drill (1).	Company.
Nov.....	2	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.
	9	Seamanship.	Seamanship.	Seamanship.	Seamanship.
	16	Seamanship.	Seamanship.	Seamanship.	Seamanship.
	23	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.
	30	Steam.	Practical ordnance.	Practical electricity.	Sword exercise.
Dec....	7	Practical electricity.	Sword exercise.	Steam.	Practical ordnance.
	14	Practical ordnance.	Steam.	Sword exercise.	Practical electricity.
	21	Sword exercise.	Practical electricity.	Practical ordnance.	Steam.
	28	NO DRILLS. See note.			
1896.					
Jan....	4	Steam.	Practical ordnance.	Practical electricity.	Sword exercise.
	11	Practical electricity.	Sword exercise.	Steam.	Practical ordnance.
	18	Practical ordnance.	Steam.	Sword exercise.	Practical electricity.
	25	Sword exercise.	Practical electricity.	Practical ordnance.	Steam.
Feb.....	1	SEMI-ANNUAL EXAMINATION. No drills.			
	8	Steam.	Seamanship.	Practical electricity.	Sword exercise.
	15	Practical electricity.	Sword exercise.	Steam.	Seamanship.
	22	Seamanship.	Steam.	Sword exercise.	Practical electricity.
	29	Sword exercise.	Practical electricity.	Seamanship.	Steam.
Mar.....	7	Battalion Artillery (4)	Battalion Artillery (4)	Battalion Artillery (4)	Battalion Artillery (4)
	14	Seamanship (1).	Seamanship (1).	Seamanship (1).	Seamanship (1).
	21	Target, great guns (4)	Steam tactics (4).	Skirmish (4).	Torpedoes (4).
	28	Battery drill (1).	Seamanship (1).	Battery drill (1).	Seamanship (1).
	5	Boats (1).	Boats (1).	Boats (1).	Boats (1).
	12	Skirmish (4).	Torpedoes (4).	Target, great guns (4)	Steam tactics (4).
	19	Seamanship (1).	Landing party (1).	Seamanship (1).	Landing party (1).
	26	Boats (1).	Boats (1).	Boats (1).	Boats (1).
	3	Steam tactics (4).	Target, great guns (4)	Torpedoes (4).	Skirmish (4).
	10	Seamanship (1).	Battery drill (1).	Seamanship (1).	Battery drill (1).
	17	Boats (1).	Boats (1).	Boats (1).	Boats (1).
Apr.....	24	Torpedoes (4).	Skirmish (4).	Steam tactics (4).	Target, great guns (4)
	1	Landing party (1).	Seamanship (1).	Landing party (1).	Seamanship (1).
	8	Boats (1).	Boats (1).	Boats (1).	Boats (1).
	15	Steam tactics (4).	Steam tactics (4).	Steam tactics (4).	Steam tactics (4).
	22	Landing party (1).	Seamanship (2).	Landing party (1).	Seamanship (2).
	29	Seamanship (1).	Battery drill (5).	Seamanship (1).	Battery drill (5).
	6	Battery drill (5).	Seamanship (1).	Battery drill (5).	Seamanship (1).
	13	Seamanship (1).	Seamanship.	Seamanship.	Seamanship.
	20	Battery drill (5).	Battery drill (5).	Battery drill (5).	Battery drill (5).
	27	Seamanship (1).	Seamanship (1).	Seamanship (1).	Seamanship (1).



## FIRST CLASS—Continued.

Aca- demic months.	Week ending—	First division.	Second division.	Third division.	Fourth division.
1896.					
May.....	2	Seamanship.	Seamanship (5). Landing party (1).	Seamanship.	Seamanship (5). Landing party (1).
	9	Deviation compass (4). Seamanship (2).	Deviation compass (4). Seamanship (2).	Deviation compass (4). Seamanship (2).	Deviation compass (4). Seamanship (2).
	16	Battalion Infantry (5) Seamanship (1).	Battalion Infantry (5) Seamanship (1).	Battalion Infantry (5) Seamanship (1).	Battalion Infantry (5) Seamanship (2).
	M.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.
	T.	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.
	W.	Seamanship.	Seamanship.	Seamanship.	Seamanship.
	Th.	Steam tactics.	Steam tactics.	Steam tactics.	Steam tactics.
	F.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.
	S. 23	Battle drill.	Battle drill.	Battle drill.	Battle drill.
June 1 to 10.	} ..	ANNUAL EXAMINATION.			
June 10 to Aug. 28	} ..	Practice cruise.			

Drills will be suspended from December 24 to January 2. There will be "Fire quarters" on one Wednesday afternoon in each month. Cadets of the Engineer Division will take part in drills on board the *Bancroft* when underway, in "Practical electricity," in "General steam tactics," and at "Fire quarters." At other times they will have "Steam drill."

## SECOND CLASS.

Aca- demic months.	Week ending—	First division.	Second division.	Third division.	Fourth division.
1895.					
Oct.....	5	Company.	Target, machine guns (4).	Artillery.	Steam tactics (4).
	12	Artillery.	Seamanship (1). Steam tactics (4). Battery drill (1).	Company.	Seamanship (1). Target, machine guns (4). Battery drill (1).
	19	Target, machine guns (4).	Company.	Steam tactics (4).	Artillery.
	26	Seamanship (1). Steam tactics (4).	Artillery.	Seamanship (1). Target, machine guns (4).	Company.
Nov.....	2	Battery drill (1).	Battalion Infantry.	Battery drill (1).	Battalion Infantry.
	9	Battalion Infantry.	Seamanship.	Battalion Infantry.	Seamanship.
	16	Seamanship.	Seamanship.	Seamanship.	Seamanship.
	23	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.
	30	Steam.	Signals (3). Seamanship (2).	Steam.	Sword exercise.
Dec.....	7	Steam.	Sword exercise.	Steam.	Signals (3). Seamanship (2).
	14	Signals (3). Seamanship (2).	Steam.	Sword exercise.	Steam.
	21	Sword exercise.	Steam.	Signals (3). Seamanship (2).	Steam.
	28	NO DRILLS. See note.			
1896.					
Jan.....	4	Steam.	Signals (3). Seamanship (2).	Steam.	Sword exercise.
	11	Steam.	Sword exercise.	Steam.	Signals (3). Seamanship (2).
	18	Signals (3). Seamanship (2).	Steam.	Sword exercise.	Steam.
	25	Sword exercise.	Steam.	Signals (3). Seamanship (2).	Steam.
Feb.....	1	SEMI-ANNUAL EXAMINATION. No drills.			



## SECOND CLASS—Continued.

Aca- demic months.	Week ending	First division.	Second division.	Third division.	Fourth division.
1896.					
Feb . . . .	8	Steam.	Practical ordnance.	Steam.	Sword exercise.
	15	Steam.	Sword exercise.	Steam.	Practical ordnance.
	22	Practical ordnance.	Steam.	Sword exercise.	Steam.
	29	Sword exercise.	Steam.	Practical ordnance.	Steam.
Mar . . . .	7	Battalion Artillery (4)	Battalion Artillery (4)	Battalion Artillery (4)	Battalion Artillery (4)
		Seamanship (1).	Seamanship (1).	Seamanship (1).	Seamanship (1).
	14	Target, great guns (4)	Steam tactics (4).	Skirmish (4).	Target, small arms (4)
		Battery drill (1).	Seamanship (1).	Battery drill (1).	Seamanship (1).
		Boats (1).	Boats (1).	Boats (1).	Boats (1).
	21	Skirmish (4).	Target, small arms (4)	Target, great guns (4)	Steam tactics (4).
		Seamanship (1).	Landing party (1).	Seamanship (1).	Landing party (1).
		Boats (1).	Boats (1).	Boats (1).	Boats (1).
	28	Steam tactics (4).	Target, great guns (4)	Target, small arms (4)	Skirmish (4).
		Seamanship (1).	Battery drill (1).	Seamanship (1).	Battery drill (1).
		Boats (1).	Boats (1).	Boats (1).	Boats (1).
Apr . . . .	4	Target, small arms (4)	Skirmish (4).	Steam tactics (4).	Target, great guns (4)
		Landing party (1).	Seamanship (1).	Landing party (1).	Seamanship (1).
		Boats (1).	Boats (1).	Boats (1).	Boats (1).
	11	Seamanship (5).	Seamanship.	Seamanship (5).	Seamanship.
		Landing party (1).		Landing party (1).	
	18	Seamanship.	Battery drill (5).	Seamanship.	Battery drill (5).
			Seamanship (1).		Seamanship (1).
	25	Battery drill (5).	Seamanship.	Battery drill (5).	Seamanship.
		Seamanship (1).		Seamanship (1).	
May . . . .	2	Seamanship.	Seamanship (5).	Seamanship.	Seamanship (5).
			Landing party (1).		Landing party (1).
	9	Company (4).	Company (4).	Company (4).	Company (4).
		Seamanship (2).	Seamanship (2).	Seamanship (2).	Seamanship (2).
	16	Battalion Infantry (5)	Battalion Infantry (5)	Battalion Infantry (5)	Battalion Infantry (5)
		Seamanship (1).	Seamanship (1).	Seamanship (1).	Seamanship.
M.		Battalion Infantry.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.
T.		Battalion Artillery.	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.
W.		Seamanship.	Seamanship.	Seamanship.	Seamanship.
Th.		Steam tactics.	Steam tactics.	Steam tactics.	Steam tactics.
F.		Battalion Infantry.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.
S. 23		Battle drill.	Battle drill.	Battle drill.	Battle drill.
June 1 to 10.	} ..	ANNUAL EXAMINATION.			

Drills will be suspended from December 24 to January 2. There will be "Fire quarters" on one Wednesday afternoon in each month.

## SECOND CLASS—Continued.

Summer months.	Weeks.	First division.	Second division.	Third division.	Fourth division.
	1	Machine shop, a. m. Target, small arms, p. m.	Machine shop, a. m. Gun house, p. m.	Machine shop, a. m. Signals, p. m.	Machine shop, a. m. Gun house, p. m.
	2	Machine shop, a. m. Gun house, p. m.	Machine shop, a. m. Target, small arms, p. m.	Machine shop, a. m. Gun house, p. m.	Machine shop, a. m. Signals, p. m.
	3	Machine shop, a. m. Signals, p. m.	Machine shop, a. m. Gun house, p. m.	Machine shop, a. m. Target, small arms, p. m.	Machine shop, a. m. Gun house, p. m.
	4	Running steam cut- ters, a. m. Gun house, p. m.	Running steam cut- ters, a. m. Signals, p. m.	Running steam cut- ters, a. m. Gun house, p. m.	Running steam cut- ters, a. m. Target, small arms, p. m.
	5	Machine shop, a. m. Boats, p. m.	Machine shop, a. m. Boats, p. m.	Machine shop, a. m. Boats, p. m.	Machine shop, a. m. Boats, p. m.
	6	Machine shop, a. m. Target, machine guns, p. m.	Machine shop, a. m. Target, small arms, p. m.	Machine shop, a. m. Boats, p. m.	Machine shop, a. m. Steam tactics, p. m.
	7	Machine shop, a. m. Steam tactics, p. m.	Machine shop, a. m. Target, machine guns, p. m.	Machine shop, a. m. Target, small arms, p. m.	Machine shop, a. m. Boats, p. m.

## SECOND CLASS—Continued.

Summer months.	Weeks.	First division.	Second division.	Third division.	Fourth division.
	8	Machine shop, a. m. Boats, p. m.	Machine shop, a. m. Steam tactics, p. m.	Machine shop, a. m. Target, machine guns, p. m.	Machine shop, a. m. Target, small arms p. m.
	9	Machine shop, a. m. Target, small arms, p. m.	Machine shop, a. m. Boats, p. m.	Machine shop, a. m. Steam tactics, p. m.	Machine shop, a. m. Target, machine guns, p. m.
	10	Machine shop, a. m. Boats, p. m.	Machine shop, a. m. Boats, p. m.	Machine shop, a. m. Boats, p. m.	Machine shop, a. m. Boats, p. m.

## THIRD CLASS.

Academic months.	Week ending—	First division.	Second division.	Third division.	Fourth division.
1895.					
Oct. ....	5	Company.	Boats (4). Seamanship (1).	Artillery.	Boats (4). Seamanship (1).
	12	Artillery.	Boats (4). Battery drill (1).	Company.	Boats (4). Battery drill (1).
	19	Boats (4). Seamanship (1).	Company.	Boats (4). Seamanship (1).	Artillery.
	26	Boats (4). Battery drill (1).	Artillery.	Boats (4). Battery drill (1).	Company.
Nov. ....	2	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.
	9	Seamanship.	Seamanship.	Seamanship.	Seamanship.
	16	Seamanship.	Seamanship.	Seamanship.	Seamanship.
	23	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.
	30	Steam.	Seamanship.	Target, small arms (3) Great guns (2). Steam.	Sword exercise.
Dec. ....	7	Target, small arms (3) Great guns (2).	Sword exercise.	Steam.	Seamanship.
	14	Seamanship.	Steam.	Sword exercise.	Target, small arms (3) Great guns (2).
	21	Sword exercise.	Target, small arms (3) Great guns (2).	Seamanship.	Steam.
	28	NO DRILLS. See note.			
1896.					
Jan. ....	4	Steam.	Seamanship.	Target, small arms (3) Great guns (2). Steam.	Sword exercise.
	11	Target, small arms (3) Great guns (2).	Sword exercise.	Steam.	Seamanship.
	18	Seamanship.	Steam.	Sword exercise.	Target, small arms (3) Great guns (2).
	25	Sword exercise.	Target, small arms (3) Great guns (2).	Seamanship.	Steam.
Feb. ....	1	SEMI-ANNUAL EXAMINATION. No drills.			
	8	Steam.	Signals (3). Seamanship (2).	Target, small arms (3) Great guns (2). Steam.	Sword exercise.
	15	Target, small arms (3) Great guns (2).	Sword exercise.	Steam.	Signals (3). Seamanship (2).
	22	Signals (3). Seamanship (2).	Steam.	Sword exercise.	Target, small arms (3) Great guns (2).
	29	Sword exercise.	Target, small arms (3) Great guns (2).	Signals (3). Seamanship (2).	Steam.
Mar. ....	7	Battalion Artillery (4) Seamanship (1).	Battalion Artillery (4) Seamanship (1).	Battalion Artillery (4) Seamanship (1).	Battalion Artillery (4) Seamanship (1).
	14	Target, small arms (4) Battery drill (1). Boats (1).	Seamanship (5). Boats (1). Boats (5).	Skirmish (4). Battery drill (1). Boats (1).	Boats (4). Seamanship (1). Boats (1).
	21	Skirmish (4). Seamanship (1). Boats (1).	Landing party (1).	Target, small arms (4) Seamanship (1). Boats (1).	Seamanship (4). Landing party (1). Boats (1).

## THIRD CLASS—Continued.

Aca- demic months.	Week ending—	First division.	Second division.	Third division.	Fourth division.
1896.					
Mar.....	28	Seamanship (5). Boats (1).	Target, small arms (4). Battery drill (1). Boats (1).	Boats (5). Seamanship (1).	Skirmish (4). Battery drill (1). Boats (1).
Apr.....	4	Boats (5). Landing party (1).	Skirmish (4). Seamanship (1). Boats (1). Seamanship.	Seamanship (4). Landing party (1). Boats (1). Seamanship (5). Landing party (1). Seamanship.	Target, small arms (4). Seamanship (1). Boats (1). Seamanship.
	11	Seamanship (5). Landing party (1).			
	18	Seamanship.	Battery drill (5). Seamanship (1). Seamanship.		Battery drill (5). Seamanship (1). Seamanship.
	25	Battery drill (5). Seamanship (1).		Battery drill (5). Seamanship (1).	
May.....	2	Seamanship.	Seamanship (5). Landing party (1). Company (4). Seamanship (2). Battalion Infantry (5). Seamanship (1). M. Battalion Infantry. T. Battalion Artillery. W. Seamanship. Th. Boats. F. Battalion Infantry. S. 23 Battle drill.	Seamanship. Seamanship (1). Company (4). Seamanship (2). Battalion Infantry (5). Seamanship (1). Battalion Infantry. Battalion Artillery. Seamanship. Boats. Battalion Infantry. Battle drill.	Seamanship (5). Landing party (1). Company (4). Seamanship (2). Battalion Infantry (5). Seamanship (1). Battalion Infantry. Battalion Artillery. Seamanship. Boats. Battalion Infantry. Battle drill.
June 1 to 10.	}....	ANNUAL EXAMINATION.			
June 10 to Aug. 28.	}....	Practice cruise.			

Drills will be suspended from December 24 to January 2. There will be "Fire quarters" on one Wednesday afternoon in each month.

## FOURTH CLASS.

Aca- demic months.	Week ending—	First division.	Second division.	Third division.	Fourth division.
1895.					
Oct.....	5	Company.	Boats (4). Seamanship (1).	Artillery.	Boats (4). Seamanship (1).
	12	Artillery.	Boats (4). Battery drill (1).	Company.	Boats (4). Battery drill (1).
	19	Boats (4). Seamanship (1).	Company.	Boats (4). Seamanship (1).	Artillery.
	26	Boats (4). Battery drill (1).	Artillery.	Boats (4). Battery drill (1).	Company.
Nov.....	2	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.
	9	Seamanship.	Seamanship.	Seamanship.	Seamanship.
	16	Seamanship.	Seamanship.	Seamanship.	Seamanship.
	23	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.
	30	Gymnastics.	Dancing (3). Seamanship (2).	Gymnastics.	Dancing (3). Seamanship (2).
Dec.....	7	Gymnastics.	Dancing (3). Seamanship (2).	Gymnastics.	Dancing (3). Seamanship (2).
	14	Dancing (3). Seamanship (2).	Gymnastics.	Dancing (3). Seamanship (2).	Gymnastics.
	21	Dancing (3). Seamanship (2).	Gymnastics.	Dancing (3). Seamanship (2).	Gymnastics.
	28	NO DRILLS. See note.			

## FOURTH CLASS—Continued.

Aca- demic months	Week ending—	First division.	Second division.	Third division.	Fourth division.
1896.					
Jan .....	4	Gymnastics.	Dancing (3). Seamanship (2).	Gymnastics.	Dancing (3). Seamanship (2).
	11	Gymnastics.	Dancing (3). Seamanship (2).	Gymnastics.	Dancing (3). Seamanship (2).
	18	Dancing (3). Seamanship (2).	Gymnastics.	Dancing (3). Seamanship (2).	Gymnastics.
	25	Dancing (3). Seamanship (2).	Gymnastics.	Dancing (3). Seamanship (2).	Gymnastics.
Feb ....	1	SEMI ANNUAL EXAMINATION. No drills.			
	8	Gymnastics.	Dancing (3). Seamanship (2).	Gymnastics.	Dancing (3). Great guns (2).
	15	Gymnastics.	Dancing (3). Great guns (2).	Gymnastics.	Dancing (3). Seamanship (2).
	22	Dancing (3). Seamanship (2).	Gymnastics.	Dancing (3). Great guns (2).	Gymnastics.
	29	Dancing (3). Great guns (2).	Gymnastics.	Dancing (3). Seamanship (2).	Gymnastics.
Mar .....	7	Battalion Artillery (4) Seamanship (1).	Battalion Artillery (4) Seamanship (1).	Battalion Artillery (4) Seamanship (1).	Battalion Artillery (4) Seamanship (1).
	14	Gymnastics (4). Battery drill (1). Boats (1).	Seamanship (5). Boats (1).	Skirmish (4). Battery drill (1). Boats (1).	Boats (5). Seamanship (1).
	21	Skirmish (4). Seamanship (1). Boats (1).	Boats (5). Landing party (1).	Gymnastics (4). Seamanship (1). Boats (1).	Seamanship (4). Landing party (1). Boats (1).
	28	Seamanship (5). Boats (1).	Gymnastics (4). Battery drill (1). Boats (1).	Boats (5). Seamanship (1).	Skirmish (4). Battery drill (1). Boats (1).
Apr .....	4	Boats (5). Landing party (1).	Skirmish (4). Seamanship (1). Boats (1).	Seamanship (4). Landing party (1). Boats (1).	Gymnastics (4). Seamanship (1). Boats (1).
	11	Seamanship (5). Landing party (1).	Seamanship.	Seamanship (5). Landing party (1).	Seamanship.
	18	Seamanship.	Battery drill (5). Seamanship (1).	Seamanship.	Battery drill (5). Seamanship (1).
	25	Battery drill (5). Seamanship (1).	Seamanship.	Battery drill (5). Seamanship (1).	Seamanship.
May. ....	2	Seamanship.	Seamanship (5). Landing party (1).	Seamanship.	Seamanship (5). Landing party (1).
	9	Company (4). Seamanship (2).	Company (4). Seamanship (2).	Company (4). Seamanship (2).	Company (4). Seamanship (2).
	16	Battalion Infantry (5) Seamanship (1).	Battalion Infantry (5) Seamanship (1).	Battalion Infantry (5) Seamanship (1).	Battalion Infantry (5) Seamanship (1).
	M.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.
	T.	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.	Battalion Artillery.
	W.	Seamanship.	Seamanship.	Seamanship.	Seamanship.
	Th.	Boats.	Boats.	Boats.	Boats.
	F.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.	Battalion Infantry.
	S.	Battle drill.	Battle drill.	Battle drill.	Battle drill.
Sept. ....	7	School of soldier.*	School of soldier.*	School of soldier.*	School of soldier.*
	14	School of soldier.*	School of soldier.*	School of soldier.*	School of soldier.*
	21	School of soldier.* Artillery.	School of soldier.* Artillery.	School of soldier.* Artillery.	School of soldier.* Artillery.
	28	School of soldier.* Artillery.	School of soldier.* Artillery.	School of soldier.* Artillery.	School of soldier.* Artillery.

\*Swimming daily.

Drills will be suspended from December 24 to January 2. There will be "Fire quarters" on one Wednesday afternoon in each month.



## SUMMARY OF PRACTICAL INSTRUCTION.

[illegible]

	113	17	17	18	13
Practical instruction in chemistry.....					13
Gymnastics and boxing.....			17		17
Swimming.....					24
Dancing.....		18	18		18

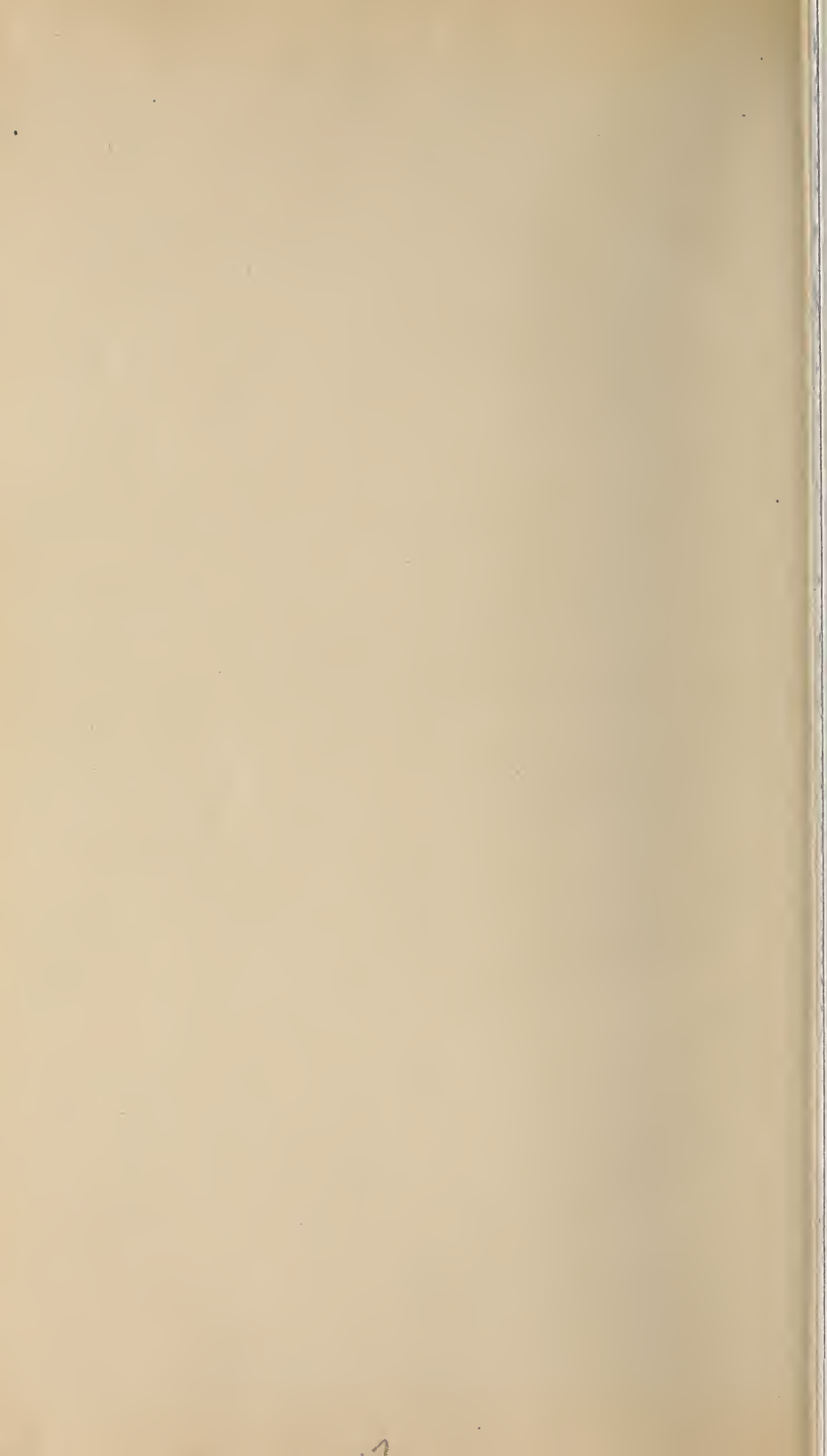
\* Practice cruise.

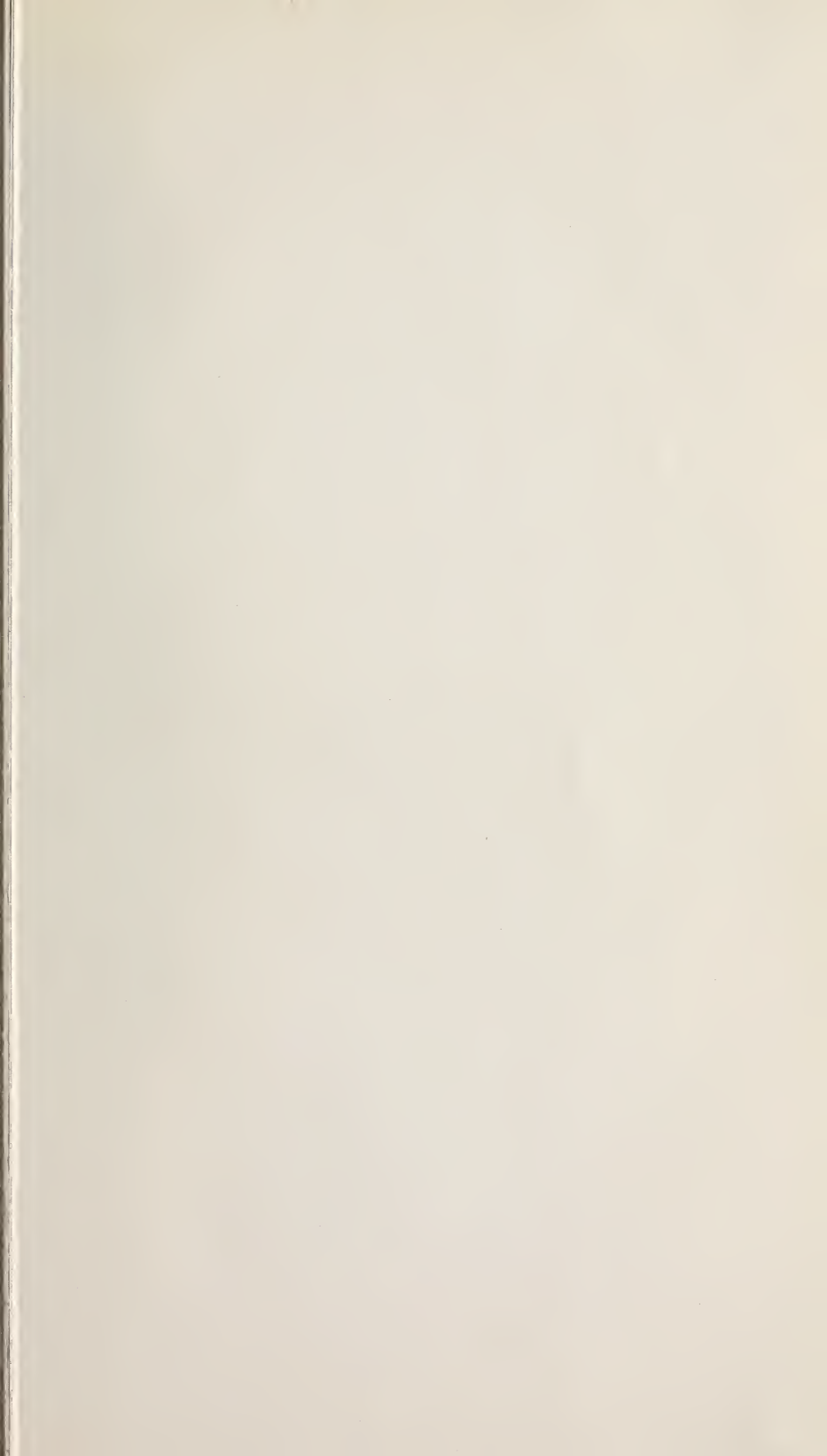
† Study periods.

‡ Engineer Division.

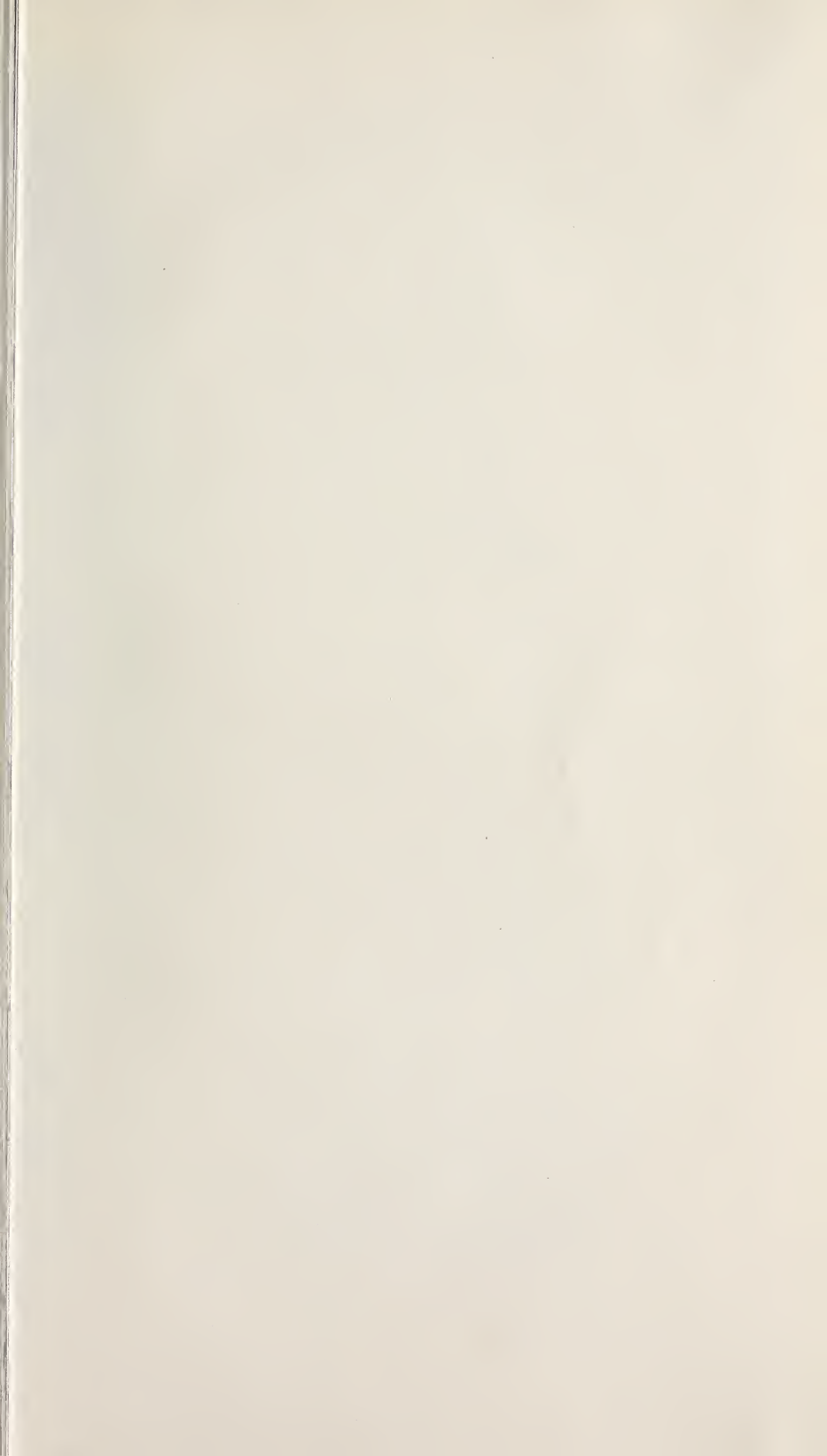
The instructions in seamanship and gunnery on board of the Practice Steamers are also made instructions in running and managing the engines and boilers of those vessels. The instructions in naval tactics are also made instructions in running and managing the engines and boilers of the steam launches when practicable.

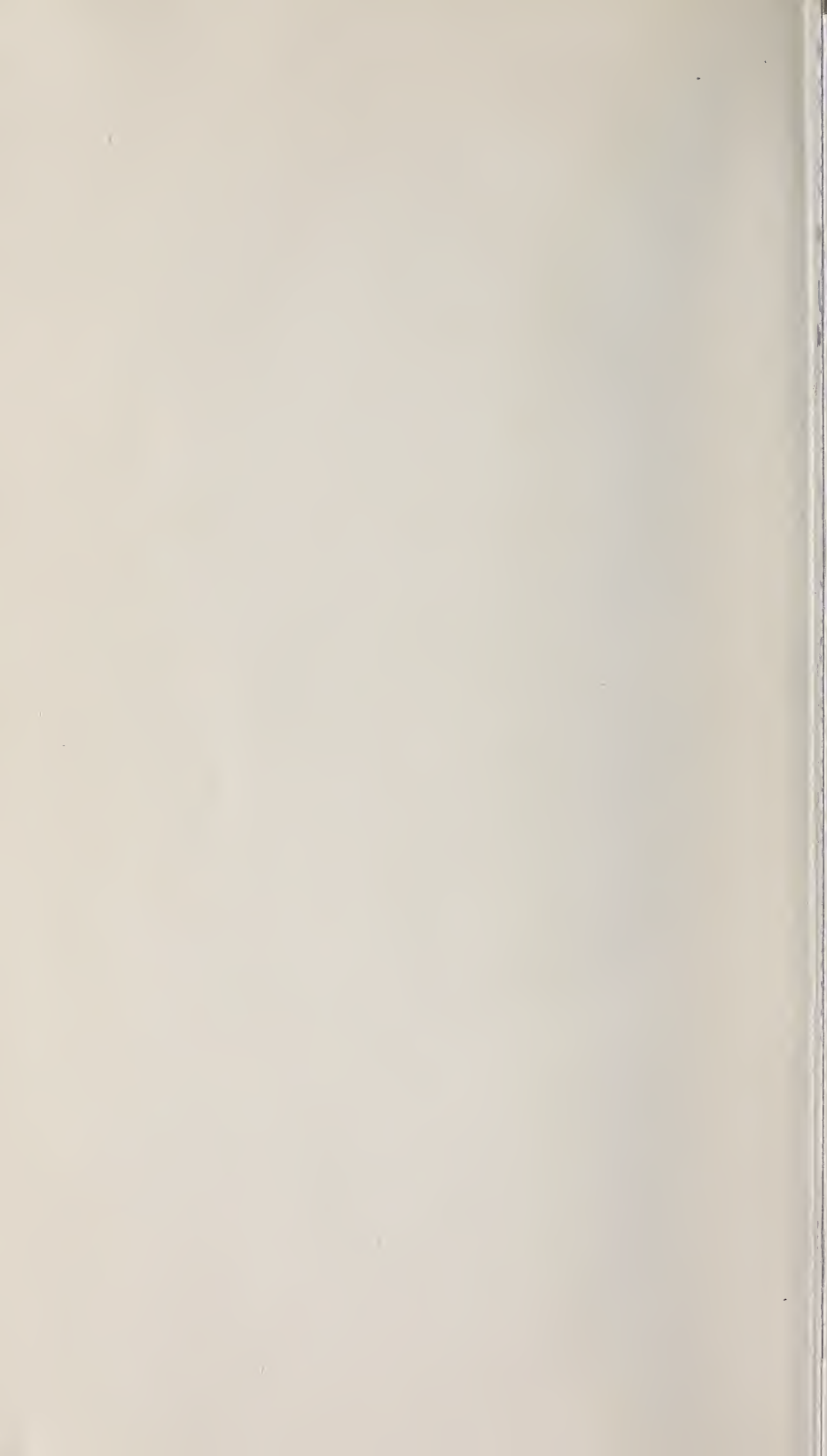












**Annual register**

**1895-1896**

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